

Archives of

Microbiology

Founded in 1930 as
Archiv für Mikrobiologie

Index of the Volumes 121–130 (1979–1981)

Compiled by Ursula Bramböck

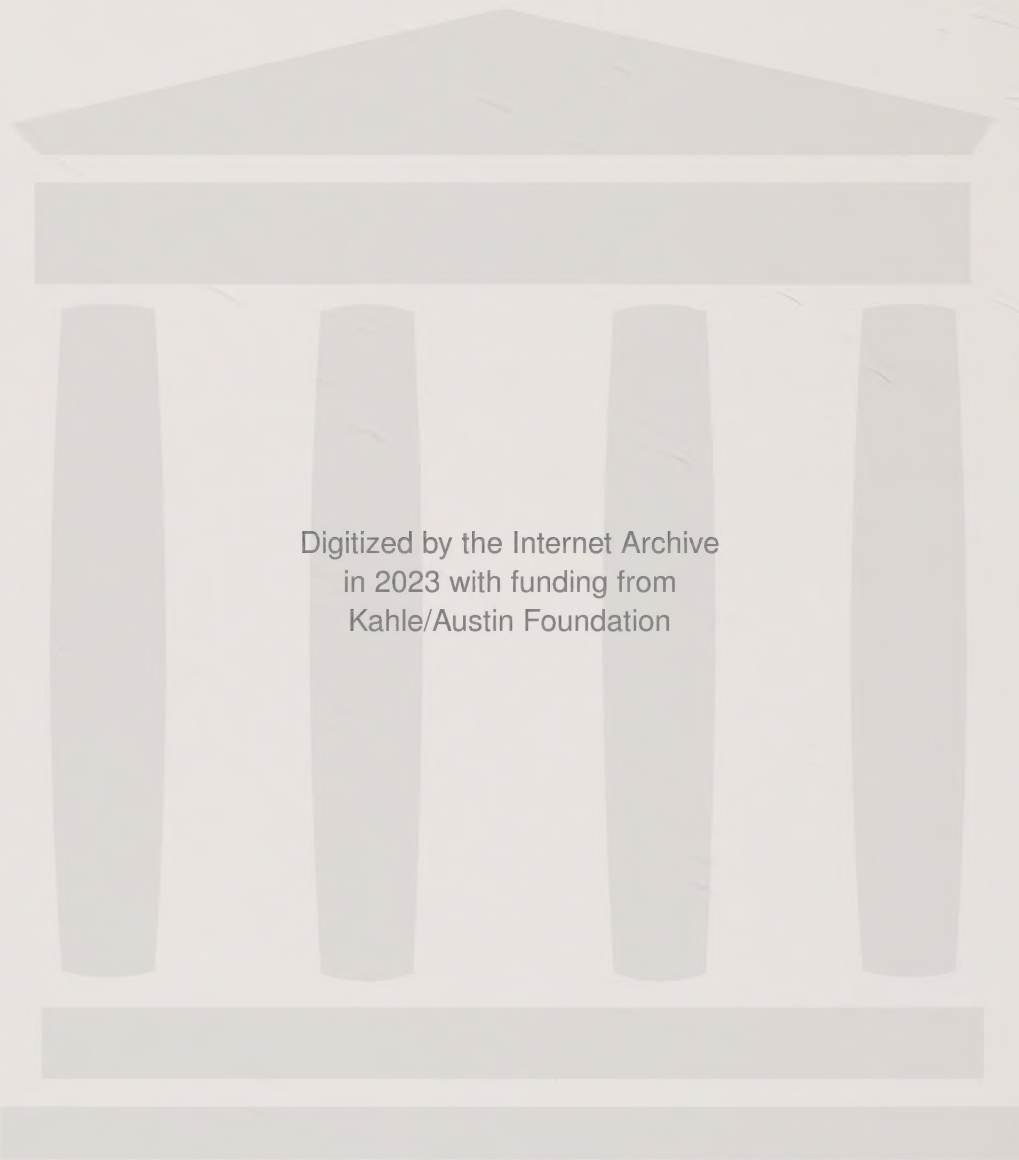
JAN 19 11 53 AM '83

UNIVERSITY OF JAWAHAR
LIBRARY

QRI
A7
v. 130
INDEX



Springer International



Digitized by the Internet Archive
in 2023 with funding from
Kahle/Austin Foundation

Archives of

Microbiology

Founded in 1930 as
Archiv für Mikrobiologie

Index of the Volumes 121 – 130 (1979 – 1981)

Compiled by Ursula Bramböck



Springer International

Notes on the Use of the Index

The index of *Archives of Microbiology* covers volumes 121 – 130 (1979 – 1981) and is presented in two sections.

Section 1 contains a strictly alphabetical author index. Next to each author's name are listed the volume numbers of all the papers in which he is involved either as senior author or coauthor. Numbers in boldface type refer to volumes; numbers in lightface refer to pages. The year of publication is indicated in parentheses.

Section 2 contains the subject index. Topics are cross-referenced and the volume numbers of papers concerned with the various topics are listed under appropriate headings. Topics and headings are cited in the original language of the paper. Numbers in boldface type refer to volumes; numbers in lightface refer to pages.

Author Index

A

- Abbott, I. A. **128**, 355 (1981)
 Abel, K. M. **130**, 344 (1981)
 Achenbach, H. **126**, 291 (1980)
 Adams, D. G. **127**, 67 (1980)
 Adler, L. **124**, 123 (1980)
 Aftring, R. P. **130**, 101 (1981)
 Aharonowitz, Y. **125**, 137 (1980)
 Ahmad, M. H. **130**, 281 (1981)
 Aiba, S. **122**, 57 (1979)
127, 25 (1980)
 Ainley, K. **126**, 271 (1980)
 Aldrich, H. C. **128**, 384 (1981)
 Alef, K. **130**, 138 (1981)
 Ali, H. **129**, 391 (1981)
 Allen, M. M. **128**, 1 (1980)
 Alonso, A. **121**, 17 (1979)
 Aminuddin, M. **128**, 19 (1980)
 Ander, P. **125**, 189 (1980)
 Andersen, K. **128**, 84 (1980)
129, 384 (1981)
 Anderson, M. A. **122**, 41 (1979)
 Andreesen, J. R. **121**, 255 (1979)
 Andrews, T. J. **130**, 344 (1981)
 Anke, H. **126**, 223 (1980)
126, 231 (1980)
 Anke, T. **130**, 223 (1981)
 Antarikonda, P. **126**, 1 (1980)
 Aronson, A. I. **129**, 160 (1981)
129, 227 (1981)
 Arp, D. J. **130**, 138 (1981)
 Arst, H. N. Jr. **125**, 153 (1980)
 Asmundson, R. V. **126**, 167 (1980)
 Asperger, O. **128**, 263 (1980)
 Assche, J. A. van **124**, 289 (1980)
 Auling, G. **127**, 105 (1980)
 Azrolan, N. I. **128**, 126 (1980)

B

- Baalen, Ch. van **121**, 155 (1979)
125, 203 (1980)
130, 272 (1981)
 Bache, R. **130**, 255 (1981)
 Bachofen, R. **123**, 227 (1979)
130, 125 (1981)
 Bader, J. **125**, 159 (1980)
127, 279 (1980)
 Bader, K. P. **127**, 33 (1980)
 Badger, M. R. **130**, 344 (1981)
 Badziong, W. **123**, 301 (1979)
125, 167 (1980)
 Bagi, G. **123**, 109 (1979)
 Bailey, Ch. R. **125**, 153 (1980)
 Baker, E. R. **129**, 310 (1981)
 Baker, H. **129**, 310 (1981)

- Baldrián, J. **130**, 312 (1981)
 Balkwill, D. L. **128**, 8 (1980)
130, 204 (1981)
 Bang, S. S. **130**, 111 (1981)
 Banks, D. H. **130**, 307 (1981)
 Bansal, V. S. **130**, 248 (1981)
 Barate de Bertalmio, M. **128**, 275 (1981)
 Barnickel, G. **127**, 195 (1980)
 Barsky, E. L. **129**, 105 (1981)
 Barstow, W. E. **128**, 179 (1980)
 Barz, W. **129**, 56 (1981)
130, 381 (1981)
 Batenburg-van der Vegte, W. H.
124, 211 (1980)
 Bauer, H. **128**, 157 (1980)
 Bauer, P. I. **121**, 135 (1979)
 Baumann, L. **130**, 111 (1981)
 Baumann, P. **130**, 111 (1981)
 Baxter, M. **126**, 213 (1980)
 Bazin, M. J. **130**, 372 (1981)
 Beatty, J. T. **129**, 335 (1981)
 Becker, J. U. **123**, 143 (1979)
123, 233 (1979)
 Beckerich, J. M. **122**, 201 (1979)
 Beefink, H. H. **121**, 161 (1979)
129, 32 (1981)
 Belsky, M. M. **126**, 161 (1980)
 Ben-Bassat, A. **128**, 365 (1981)
 Benndorf, R. **124**, 255 (1980)
 Benseler, W. **129**, 178 (1981)
 Benson, D. **130**, 165 (1981)
 Benson, R. **129**, 165 (1981)
 Beran, K. **130**, 312 (1981)
 Berchtold, M. **123**, 227 (1979)
 Bergmann, H. **124**, 69 (1980)
 Berlier, Y. M. **125**, 67 (1980)
 Berndt, H. **126**, 1 (1980)
 Bernstam, V. A. **128**, 34 (1980)
 Bernstein, I. A. **128**, 34 (1980)
 Betlach, M. R. **129**, 135 (1981)
 Bettenhausen, C. W. **125**, 239 (1980)
 Beudeker, R. F. **124**, 185 (1980)
129, 221 (1981)
129, 361 (1981)
 Bezzubenkova, A. P. **126**, 71 (1980)
 Bhakoo, M. **121**, 121 (1979)
126, 51 (1980)
 Bhandari, B. **122**, 249 (1979)
 Bhattacharjee, J. K. **129**, 216 (1981)
 Biedermann, M. **121**, 187 (1979)
 Biguet, J. **123**, 245 (1979)
 Binder, A. **124**, 155 (1980)
 Birch-Andersen, A. **130**, 339 (1981)
 Blank, G. S. **123**, 157 (1979)
 Blümel, P. **121**, 103 (1979)
 Bock, E. **130**, 250 (1981)
 Böck, A. **127**, 289 (1980)
 Boellaard, M. **124**, 221 (1980)
 Böttger-Vetter, A. **126**, 291 (1980)
 Bohler, M.-Chr. **124**, 155 (1980)
 Bohlool, B. B. **126**, 217 (1980)

- Bohne, L. **121**, 181 (1979)
 Bojović-Cvetić, D. **126**, 245 (1980)
 Boller, Th. **121**, 169 (1979)
 Bont, J. A. M. de **127**, 99 (1980)
128, 271 (1981)
 Boon, J. P. **121**, 213 (1979)
 Boos, W. **129**, 240 (1981)
 Borbély, G. **129**, 341 (1981)
 Bornefeld, T. **129**, 371 (1981)
 Borowiak, D. **127**, 209 (1980)
 Bos, P. **128**, 320 (1981)
 Bothe, H. **123**, 37 (1979)
130, 96 (1981)
 Boublik, M. **121**, 193 (1979)
 Bourret, J. A. **126**, 43 (1980)
 Boussiba, S. **125**, 143 (1980)
 Bradaczek, H. **127**, 195 (1980)
 Brakel, H. F. W. van **122**, 195 (1979)
 Braun, K. **128**, 294 (1981)
 Braun, M. **128**, 288 (1981)
 Braun, V. **124**, 55 (1980)
124, 233 (1980)
130, 353 (1981)
 Braun, W. **121**, 129 (1979)
 Braune, W. **122**, 289 (1979)
126, 257 (1980)
 Brecht-Fischer, A. **122**, 219 (1979)
 Breuil, C. **129**, 265 (1981)
 Brillinger, G. U. **121**, 71 (1979)
 Brock, T. D. **124**, 1 (1980)
125, 19 (1980)
 Broughton, W. J. **129**, 349 (1981)
 Brown, A. D. **129**, 154 (1981)
 Brown, P. R. **125**, 277 (1980)
 Bryant, D. A. **123**, 113 (1979)
129, 181 (1981)
129, 190 (1981)
 Bryant, M. P. **122**, 129 (1979)
 Buchanan, B. B. **130**, 14 (1981)
 Buckel, W. **127**, 167 (1980)
 Büki, K. G. **121**, 135 (1979)
 Bull, A. T. **123**, 151 (1979)
123, 239 (1979)
130, 180 (1981)
 Burke, K. A. **126**, 149 (1980)
126, 155 (1980)
 Burnham, J. C. **129**, 285 (1981)
 Burris, R. H. **130**, 155 (1981)
 Bus, S. **130**, 44 (1981)
 Buswell, J. A. **128**, 349 (1981)
 Butin, H. **126**, 87 (1980)
 Butler, B. J. **124**, 275 (1980)

C

- Cabrera, E. **128**, 275 (1981)
 Calder, K. **126**, 149 (1980)
126, 155 (1980)

- Canale-Parola, E. **122**, 231 (1979)
127, 145 (1980)
 Candler, R. A. **127**, 163 (1980)
 Candy, G. P. **122**, 297 (1979)
 Cannon, G. C. **124**, 185 (1980)
 Cantino, E. C. **130**, 72 (1981)
 Carlier, A. R. **124**, 289 (1980)
 Carlson, D. E. **130**, 14 (1981)
 Carr, N. G. **124**, 177 (1980)
127, 67 (1980)
 Castets, A.-M. **123**, 113 (1979)
 Cerniglia, C. E. **125**, 203 (1980)
129, 9 (1981)
130, 272 (1981)
 Chapman, D. J. **123**, 267 (1979)
 Chapman, F. A. **128**, 355 (1981)
 Charles, A. M. **124**, 275 (1980)
 Charley, R. C. **123**, 239 (1979)
 Cheng, T. M. **121**, 37 (1979)
 Chiew, Y. Y. **125**, 97 (1980)
 Choi, S. **130**, 66 (1981)
 Claassen, V. P. **130**, 44 (1981)
 Claes, H. **124**, 81 (1980)
 Cinco, M. **130**, 339 (1981)
 Clark, A. J. **129**, 94 (1981)
 Claus, D. **129**, 254 (1981)
 Claus, R. **128**, 263 (1980)
 Codd, G. A. **124**, 149 (1980)
129, 361 (1981)
130, 213 (1981)
 Cohen, Y. **122**, 189 (1979)
 Cohen-Bazire, G. **123**, 113 (1979)
129, 181 (1981)
129, 190 (1981)
 Collart, S. A. **129**, 285 (1981)
 Colombetti, G. **130**, 78 (1981)
 Cordier, J.-L. **129**, 14 (1981)
130, 19 (1981)
 Cotton, N. P. J. **129**, 94 (1981)
 Cox, G. **130**, 165 (1981)
 Cramer, R. **130**, 218 (1981)
 Crawford, D. L. **129**, 204 (1981)
 Crawford, N. A. **130**, 14 (1981)
 Crawford, R. L. **129**, 204 (1981)
 Croes, A. F. **129**, 47 (1981)
 Crow, S. A. **129**, 9 (1981)
 Cruden, D. L. **129**, 129 (1981)
 Csatorday, K. **123**, 109 (1979)
 Cuhel, R. L. **130**, 1 (1981)
130, 8 (1981)
 Cullum, J. **128**, 390 (1981)
 Cwyk, W. M. **122**, 231 (1979)
 Cypionka, H. **127**, 301 (1980)

D

- Da Costa, M. S. **126**, 57 (1980)
 Dagestad, D. **129**, 261 (1981)
 Dahlbäck, B. **128**, 267 (1981)
 Davies, K. **121**, 207 (1979)
 Deane, E. M. **128**, 307 (1981)
128, 311 (1981)
 DeAngelis, B. **129**, 310 (1981)
 De Bruyn, J. C. **124**, 211 (1980)

- Decker, K. **130**, 288 (1981)
 De Filippis, L. F. **126**, 237 (1980)
128, 407 (1981)
 De Groot, G. J. **125**, 59 (1980)
 Degryse, E. **129**, 173 (1981)
 De Jonge, I. **122**, 189 (1979)
 Dekker, R. F. H. **122**, 297 (1979)
 Delaney, S. F. **124**, 177 (1980)
 De Lange, T. **123**, 183 (1979)
 De la Torre, A. **130**, 14 (1981)
 DeMoss, R. D. **122**, 169 (1979)
 Dentan, E. **128**, 12 (1980)
 De-Polli, H. **126**, 217 (1980)
128, 371 (1981)
 Derylo, M. **130**, 322 (1981)
 De Sousa, S. **130**, 262 (1981)
 Despreux, C. W. **121**, 193 (1979)
 De Vries, S. **121**, 241 (1979)
 De Vries, W. **124**, 221 (1980)
 De Vries-Tijssen, F. C. **123**, 173 (1979)
 De Waard, A. **128**, 242 (1980)
 Dewick, P. M. **130**, 381 (1981)
 Dick, H. **124**, 107 (1980)
 Diekert, G. **122**, 117 (1979)
124, 103 (1980)
127, 273 (1980)
128, 256 (1980)
122, 117 (1979)
 Diekmann, H. **127**, 105 (1980)
 Dierstein, R. **128**, 376 (1981)
 Dijken, J. P. van **124**, 115 (1980)
126, 117 (1980)
128, 320 (1981)
129, 72 (1981)
 Dijkhuizen, L. **123**, 47 (1979)
123, 55 (1979)
124, 261 (1980)
 Dillenburg, M. **122**, 207 (1979)
 Dilworth, M. J. **126**, 251 (1980)
129, 233 (1981)
 Di Martino Rigano, V. **121**, 117 (1979)
129, 110 (1981)
130, 349 (1981)
 Ditter, B. **123**, 301 (1979)
 Dizikes, G. J. **129**, 204 (1981)
 Döbereiner, J. **121**, 141 (1979)
126, 217 (1980)
128, 371 (1981)
130, 96 (1981)
 Dogra, R. C. **129**, 380 (1981)
 Doolittle, W. F. **123**, 165 (1979)
 Doorn, E. van **127**, 137 (1980)
 Dott, W. **121**, 251 (1979)
 Douthit, H. A. **121**, 235 (1979)
 Downey, J. **126**, 21 (1980)
 Drews, G. **127**, 157 (1980)
127, 209 (1980)
127, 217 (1980)
128, 376 (1981)
128, 390 (1981)
130, 325 (1981)
 Dürr, M. **121**, 169 (1979)
 Dunham, S. M. **128**, 98 (1980)
 Durrens, P. **130**, 121 (1981)
 Duxbury, T. **124**, 169 (1980)
 Duyvesteyn, M. **128**, 242 (1980)
 Dwart, D. M. **130**, 165 (1981)

E

- Eaglesham, A. R. J. **130**, 281 (1981)
 Earhart, C. F. **128**, 360 (1981)
 Easterby, J. S. **122**, 313 (1979)
 Eberhard, A. **121**, 277 (1979)
 Ebersold, H.-R. **129**, 14 (1981)
130, 19 (1981)
130, 366 (1981)
 Eden, G. **128**, 64 (1980)
 Egan, A. F. **128**, 152 (1980)
 Eggeling, L. **126**, 141 (1980)
127, 119 (1980)
130, 362 (1981)
 Egli, Th. **124**, 115 (1980)
 Eilers-König, C. **123**, 143 (1979)
 Eisbrenner, G. **123**, 37 (1979)
 Elsdén, S. R. **123**, 137 (1979)
 Elstner, E. F. **125**, 209 (1980)
125, 215 (1980)
 Emerich, D. W. **121**, 199 (1979)
 Enoki, A. **123**, 319 (1979)
125, 227 (1980)
128, 190 (1980)
129, 141 (1981)
 Ensign, J. C. **122**, 61 (1979)
122, 69 (1979)
 Eriksson, K.-E. **125**, 189 (1980)
128, 349 (1981)
 Ermakova, S. A. **128**, 394 (1981)
 Eschmann, K. **125**, 29 (1980)
 Etten, H. S., van **129**, 56 (1981)
 Ettlinger, L. **122**, 103 (1979)
122, 109 (1979)
124, 63 (1980)
 Evans, H. J. **121**, 199 (1979)
123, 1 (1979)

F

- Fahlbusch, K. **122**, 213 (1979)
 Faller, A. H. **127**, 173 (1980)
 Farkas, G. L. **123**, 109 (1979)
129, 331 (1981)
129, 341 (1981)
 Fauque, G. **121**, 261 (1979)
 Fehr, S. **129**, 29 (1981)
 Feingold, S. **129**, 310 (1981)
 Felix, A. **122**, 241 (1979)
 Fenn, P. **123**, 307 (1979)
130, 59 (1981)
130, 66 (1981)
 Fiechter, A. **124**, 13 (1980)
124, 115 (1980)
 Fiedler, F. **129**, 85 (1981)
 Finazzo, S. F. **129**, 199 (1981)
 Fine, M. **123**, 311 (1979)
 Finnerty, W. R. **126**, 285 (1980)
 Firestone, R. B. **129**, 135 (1981)
 Fischer, H. M. **124**, 13 (1980)
 Fischer, U. **130**, 31 (1981)
 Fisher, R. W. **127**, 163 (1980)
128, 126 (1980)

- Fletcher, M. **122**, 271 (1979)
 Fletcher, M. H. **128**, 113 (1980)
 Flores, E. **128**, 137 (1980)
 Foy, J. J. **129**, 216 (1981)
 Frank, G. **129**, 268 (1981)
 Frank, S. **129**, 310 (1981)
 Freeman, J. P. **130**, 272 (1981)
 Friedberg, D. **123**, 311 (1979)
 Friedberg, I. **130**, 357 (1981)
 Friederich, U. **124**, 13 (1980)
 Friedman, E. I. **130**, 267 (1981)
 Friedrich, B. **129**, 150 (1981)
 Friedrich, C. G. **125**, 137 (1980)
 Friga, G. M. **129**, 331 (1981)
129, 341 (1981)
 Fromme, I. **127**, 209 (1980)
 Fuchs, G. **127**, 267 (1980)
128, 56 (1980)
128, 64 (1980)
128, 248 (1980)
130, 294 (1981)
 Fuggi, A. **121**, 117 (1979)
129, 110 (1981)
130, 349 (1981)
 Füglistaller, P. **129**, 268 (1981)
 Fujii, T. **127**, 25 (1980)
 Fujimura, H. **129**, 281 (1981)
 Fukui, S. **124**, 191 (1980)
127, 47 (1980)
128, 145 (1980)
128, 215 (1980)
 Furter, R. **130**, 195 (1981)

G

- Gaal, A. **130**, 54 (1981)
 Gälli, R. **130**, 366 (1981)
 Galun, E. **130**, 105 (1981)
 Galun, M. **130**, 105 (1981)
 García, A. F. **125**, 149 (1980)
127, 157 (1980)
 Gatenbeck, S. **128**, 253 (1980)
129, 210 (1981)
129, 213 (1981)
 Gates, J. E. **127**, 163 (1980)
128, 126 (1980)
 Gemerden, H. van **121**, 161 (1979)
125, 115 (1980)
129, 32 (1981)
129, 115 (1981)
 Gemperle, A. **130**, 312 (1981)
 Georg, B. **124**, 97 (1980)
 Gersch, D. **121**, 91 (1979)
 Gest, H. **129**, 335 (1981)
 Ghiorse, W. C. **123**, 213 (1979)
 Giannetti, B.-M. **130**, 223 (1981)
 Gibson, Ch. E. **123**, 315 (1979)
 Gibson, D. T. **125**, 203 (1980)
 Gibson, J. **130**, 175 (1981)

- Giddings, T. H., Jr. **129**, 295 (1981)
 Giesbrecht, P. **121**, 103 (1979)
127, 195 (1980)
 Gilles, H.-H. **128**, 256 (1980)
 Glandsdorff, N. **129**, 173 (1981)
 Glazer, A. N. **124**, 39 (1980)
129, 190 (1981)
130, 23 (1981)
 Glenn, A. R. **126**, 251 (1980)
128, 72 (1980)
129, 233 (1981)
 Glover, H. E. **129**, 42 (1981)
 Glowacka, M. **130**, 322 (1981)
 Gmeiner, J. **121**, 177 (1979)
124, 69 (1980)
127, 81 (1980)
127, 223 (1980)
128, 299 (1981)
 Godde, D. **127**, 245 (1980)
 Götz, F. **125**, 209 (1980)
125, 215 (1980)
 Goggin, T. W. **128**, 126 (1980)
 Gold, M. H. **121**, 37 (1979)
123, 319 (1979)
125, 227 (1980)
128, 190 (1980)
129, 141 (1981)
 Goldsby, G. P. **125**, 227 (1980)
128, 190 (1980)
129, 141 (1981)
 Goldstein, S. **126**, 161 (1980)
 Gons, H. J. **125**, 9 (1980)
 Gopinathan, K. P. **124**, 249 (1980)
130, 50 (1981)
 Gotto, J. W. **121**, 155 (1979)
 Gottschal, J. C. **121**, 241 (1979)
126, 33 (1980)
129, 23 (1981)
 Gottschalk, G. **128**, 288 (1981)
128, 294 (1981)
 Goudsmit, E. M. **124**, 87 (1980)
 Graf, E. G. **122**, 117 (1979)
 Graham, J.-R. **124**, 143 (1980)
 Grange, F. **125**, 53 (1980)
 Grant, W. D. **130**, 238 (1981)
 Gray, R. H. **128**, 34 (1980)
 Greenberg, E. **126**, 21 (1980)
 Greenley, D. E. **122**, 257 (1979)
 Gregoriou, M. **125**, 277 (1980)
 Gregory, M. **129**, 119 (1981)
 Gresshoff, P. M. **128**, 303 (1981)
 Griffiths, K. **129**, 119 (1981)
 Grimm, K. **126**, 175 (1980)
 Gröger, D. **125**, 251 (1980)
 Grossmann, M. K. **124**, 293 (1980)
 Güde, H. **129**, 357 (1981)
 Günther, H. **125**, 159 (1980)
 Guerrero, M. G. **128**, 137 (1980)
 Guglielmi, G. **123**, 113 (1979)
129, 181 (1981)
 Guillaume, J. B. **129**, 391 (1981)
 Gull, K. **128**, 403 (1981)
 Gumpert, J. **126**, 263 (1980)
 Gupta, J. K. **128**, 349 (1981)
 Gusev, M. V. **129**, 105 (1981)
 Gustafsson, L. **124**, 123 (1980)
 Gutnick, D. L. **130**, 129 (1981)

H

- Haarasilta, S. **122**, 121 (1979)
 Haars, A. **125**, 233 (1980)
 Häder, D.-P. **123**, 281 (1979)
126, 97 (1980)
126, 181 (1980)
129, 168 (1981)
130, 78 (1981)
130, 83 (1981)
 Häringer, M. **127**, 179 (1980)
 Hamagishi, Y. **125**, 285 (1980)
130, 134 (1981)
 Hammes, W. P. **123**, 275 (1979)
127, 187 (1980)
 Hammond, B. F. **122**, 29 (1979)
122, 35 (1979)
 Hamp, S. G. **128**, 349 (1981)
 Hampel, W. **123**, 73 (1979)
 Hampp, R. **126**, 237 (1980)
128, 407 (1981)
 Hansen, T. A. **128**, 271 (1981)
 Harder, W. **123**, 47 (1979)
123, 55 (1979)
124, 115 (1980)
124, 261 (1980)
126, 117 (1980)
129, 35 (1981)
129, 72 (1981)
 Hardisson, C. **125**, 111 (1980)
 Hardy, G. P. M. A. **125**, 175 (1980)
 Hare, P. **130**, 276 (1981)
 Harms, H. **128**, 280 (1981)
 Hartmann, A. **130**, 353 (1981)
 Hasegawa, Y. **126**, 103 (1980)
 Hashwa, F. **130**, 234 (1981)
 Hassouna, S. **130**, 281 (1981)
 Hastings, J. W. **129**, 67 (1981)
 Hatakka, A. **125**, 189 (1980)
 Haugli, F. B. **126**, 109 (1980)
 Hazeu, W. **124**, 211 (1980)
 Hearn, W. L. **122**, 301 (1979)
 Heelis, D. V. **121**, 207 (1979)
 Hegge, P. W. **122**, 41 (1979)
 Heinen, W. **129**, 127 (1981)
130, 159 (1981)
 Hellingwerf, K. J. **130**, 357 (1981)
 Hennecke, H. **123**, 259 (1979)
130, 38 (1981)
 Hensel, G. **130**, 228 (1981)
 Hentzschel, G. **126**, 83 (1980)
 Herbert, R. A. **121**, 121 (1979)
125, 105 (1980)
126, 51 (1980)
128, 233 (1980)
 Herdman, M. **123**, 315 (1979)
124, 177 (1980)
129, 314 (1981)
 Hermansson, M. **128**, 267 (1981)
 Herrera, L. S. **121**, 17 (1979)
 Herst, P. M. **128**, 398 (1981)
 Herve, D. **121**, 261 (1979)
 Heslot, H. **122**, 201 (1979)
 Heumann, W. **121**, 1 (1979)
 Highison, B. W. **129**, 285 (1981)

- Higuchi, T. **121**, 23 (1979)
126, 127 (1980)
128, 416 (1981)
129, 305 (1981)
129, 321 (1981)
130, 198 (1981)
Hillmer, P. **122**, 213 (1979)
Hilton, M. G. **123**, 137 (1979)
Hindahl, M. S. **130**, 307 (1981)
Hintermann, G. **130**, 218 (1981)
Hinton, J. P. **121**, 277 (1979)
Hippchen, B. **129**, 53 (1981)
Hirata, A. **128**, 215 (1980)
Hirsch, P. **123**, 213 (1979)
Höhl, M. **122**, 85 (1979)
Holan, Z. **130**, 312 (1981)
Holt, S. C. **122**, 9 (1979)
122, 17 (1979)
122, 29 (1979)
Holzer, H. **121**, 225 (1979)
Homan, W. L. **128**, 120 (1980)
Horisberger, M. **128**, 12 (1980)
128, 157 (1980)
Horváth, I. **121**, 135 (1979)
Hou, C. T. **122**, 241 (1979)
Hovind-Hougen, K. **130**, 339 (1981)
Hu, N. T. **121**, 61 (1979)
Huber, H. E. **129**, 14 (1981)
Hudman, J. F. **128**, 72 (1980)
Huetting, S. **123**, 183 (1979)
123, 189, (1979)
Hütter, R. **129**, 146 (1981)
130, 218 (1981)
Hüttermann, A. **125**, 233 (1980)
126, 109 (1980)
Hult, K. **128**, 253 (1980)
Humphrey, B. A. **124**, 169 (1980)
Huser, B. A. **124**, 1 (1980)
Hutchison, F. **128**, 1 (1980)
Hutner, S. H. **129**, 310 (1981)

I

- Imhoff, J. F. **130**, 234 (1981)
130, 238 (1981)
Imura, N. **129**, 49 (1981)
130, 93 (1981)
Ingraham, J. L. **122**, 263 (1979)
Inoue, H. **129**, 19 (1981)
Inui, T. **125**, 285 (1980)
Ishikawa, T. **126**, 201 (1980)
126, 207 (1980)
Isobe, N. **127**, 47 (1980)
Ivanovsky, R. N. **128**, 239 (1980)
Iwahara, S. **121**, 23 (1979)
129, 305 (1981)

J

- Jackson, J. B. **129**, 94 (1981)
Jaenchen, R. **128**, 56 (1980)
128, 256 (1980)

- Jannasch, H. W. **130**, 1 (1981)
130, 8 (1981)
Janssen, D. B. **124**, 197 (1980)
128, 398 (1981)
Jensen, T. **126**, 213 (1980)
Jerebzooff, S. **128**, 325 (1981)
Jerebzooff-Quintin, S. **128**, 325 (1981)
Johnson, B. C. **122**, 161 (1979)
Joosten, H. M. L. J. **128**, 398 (1981)
Jorge, J. A. **123**, 251 (1979)
Jouanneau, Y. **122**, 145 (1979)
Jung, C. **129**, 254 (1981)

K

- Kämpf, Ch. **127**, 125 (1980)
Kahan, F. J. **124**, 91 (1980)
Kaiser, I. **126**, 187 (1980)
126, 195 (1980)
Kaiser, P. **130**, 243 (1981)
Kalebina, T. S. **128**, 394 (1981)
Kaltwasser, H. **121**, 129 (1979)
124, 131 (1980)
125, 29 (1980)
Kaluza, K. **130**, 38 (1981)
Kamaya, Y. **129**, 305 (1981)
Kamberger, W. **121**, 83 (1979)
Kamihara, T. **124**, 191 (1980)
127, 47 (1980)
Kandler, O. **121**, 271 (1979)
123, 275 (1979)
123, 295 (1979)
Karnik, S. S. **130**, 50 (1981)
Kashchenko, V. E. **124**, 255 (1980)
Katayama, T. **126**, 127 (1980)
130, 198 (1981)
Kauss, H. **127**, 239 (1980)
Kawada, N. **126**, 103 (1980)
Kawamoto, S. **128**, 145 (1980)
Keierleber, C. **126**, 43 (1980)
Kelley, B. C. **122**, 145 (1979)
127, 77 (1980)
128, 421 (1981)
129, 344 (1981)
Kelley, J. **127**, 203 (1980)
Kelly, D. P. **122**, 307 (1979)
128, 91 (1980)
Kernick, W. **121**, 207 (1979)
Kerver, J. W. M. **129**, 221 (1981)
Kessler, E. **126**, 11 (1980)
126, 15 (1980)
Kessly, D. S. **129**, 134 (1981)
Ketchum, P. A. **124**, 87 (1980)
Keynan, A. **123**, 9 (1979)
Khanna, S. **127**, 77 (1980)
128, 421 (1981)
Khuller, G. K. **129**, 81 (1981)
130, 248 (1981)
Kieras, R. A. **121**, 235 (1979)
Kieser, R. **130**, 218 (1981)
Kilian, S. **125**, 133 (1980)
King, W. R. **128**, 84 (1980)
129, 384 (1981)
Kirk, T. K. **123**, 307 (1979)
128, 416 (1981)
129, 321 (1981)
130, 59 (1981)
130, 66 (1981)
Kisser, M. **128**, 26 (1980)
Kitamura, J. **127**, 11 (1980)
Kjelleberg, S. **128**, 267 (1981)
Kleber, H.-P. **128**, 263 (1980)
Klee, N. **124**, 103 (1980)
Klein, B. **130**, 96 (1981)
Kleiner, D. **128**, 341 (1981)
128, 412 (1981)
Kleinschmidt, J. A. **128**, 412 (1981)
Klug, M. J. **122**, 169 (1979)
Knobloch, K. **130**, 328 (1981)
130, 334 (1981)
Knutsen, G. **129**, 261 (1981)
Köhle, D. **127**, 239 (1980)
König, H. **121**, 271 (1979)
123, 295 (1979)
Kohl, W. **126**, 291 (1980)
Kok, J. J. **121**, 283 (1979)
121, 291 (1979)
Koller, K.-P. **125**, 43 (1980)
Kolthoum, I. **126**, 223 (1980)
126, 231 (1980)
Koltin, Y. **128**, 45 (1980)
Koltun, L. V. **124**, 255 (1980)
Kondratieva, E. N. **128**, 239 (1980)
Konings, W. N. **130**, 357 (1981)
Koops, H.-P. **128**, 204 (1980)
128, 280 (1981)
Koppes, L. J. H. **123**, 173 (1979)
Kosaki, G. **130**, 90 (1981)
Kowalczyk Gleason, F.
123, 15 (1979)
Kradolfer, P. **129**, 146 (1981)
Kramer, M. **121**, 135 (1979)
Kreger-van Rij, N. J. W. **121**, 53 (1979)
Kreusch, J. **130**, 288 (1981)
Krieger-Brauer, H. J. **124**, 233 (1980)
Krishnapillai, V. **127**, 115 (1980)
Kröger, A. **129**, 100 (1981)
Kroll, H.-P. **127**, 223 (1980)
Krüger, W. M. A. von **130**, 150 (1981)
Kubicek, C. P. **123**, 73 (1979)
128, 26 (1980)
Kudrina, K. S. **126**, 71 (1980)
Kuenen, J. G. **121**, 241 (1979)
122, 183 (1979)
122, 189 (1979)
124, 185 (1980)
126, 33 (1980)
129, 23 (1981)
129, 221 (1981)
129, 361 (1981)
Küenzi, M. T. **128**, 78 (1980)
Kümmel, H. **126**, 15 (1980)
Kuhn, H. **121**, 193 (1979)
Kuhn, H. J. **124**, 13 (1980)
Kulaev, I. S. **128**, 394 (1981)
Kupka, J. **130**, 223 (1981)
Kurihara, N. **125**, 221 (1980)
Kuyper, Ch. M. A. **122**, 195 (1979)
Kuznetsov, V. D. **126**, 71 (1980)

L

- Laanbroek, H. J. **128**, 330 (1981)
 Laatsch, H. **122**, 219 (1979)
126, 223 (1980)
126, 231 (1980)
 Labarère, J. **124**, 269 (1980)
 Labischinski, H. **127**, 195 (1980)
 Laere, A. van **124**, 289 (1980)
 Lalucat, J. **121**, 9 (1979)
 Lambert, M. **122**, 201 (1979)
 Lanaras, T. **130**, 213 (1981)
 Lang, W. **127**, 239 (1980)
 Lansbergen, J. C. **125**, 175 (1980)
 Lara, C. **130**, 14 (1981)
 Larkin, J. M. **129**, 357 (1981)
 Larriba, G. **121**, 265 (1979)
 Lascelles, J. **126**, 149 (1980)
126, 155 (1980)
 Lategan, P. **125**, 133 (1980)
 Lauwers, A. M. **129**, 127 (1981)
130, 159 (1981)
 Lawlis, V. B. **121**, 75 (1979)
 Leadbetter, E. R. **122**, 9 (1979)
122, 17 (1979)
122, 29 (1979)
 Leefeldt, R. H. **124**, 91 (1980)
 Leenen, P. J. M. **124**, 197 (1980)
 Le Gall, J. **121**, 261 (1979)
 Lehle, L. **127**, 231 (1980)
 Leigh, J. A. **129**, 275 (1981)
 Leisinger, Th. **130**, 366 (1981)
 Lenci, F. **130**, 78 (1981)
 Lengeler, J. **128**, 196 (1980)
 Lengfelder, E. **125**, 215 (1980)
 Lens, P. F. **126**, 77 (1980)
 Leps, B. **127**, 195 (1980)
 Leps, W. T. **122**, 61 (1979)
122, 69 (1979)
 Lespinat, P. A. **125**, 67 (1980)
 Leutwiler, L. S. **123**, 267 (1979)
 Levering, P. R. **129**, 72 (1981)
 Lien, T. **129**, 261 (1981)
 Liere, L. van **123**, 315 (1979)
 Linton, J. D. **129**, 119 (1981)
 Ljungdahl, L. G. **128**, 343 (1981)
 Lobakova, E. S. **128**, 394 (1981)
 Lockau, W. **128**, 336 (1981)
 Lösecke, W. **125**, 251 (1980)
 Logvinenko, E. M. **124**, 255 (1980)
 Loider, R. **127**, 173 (1980)
 Lolkema, J. S. **130**, 357 (1981)
 Long, S. **130**, 276 (1981)
 Lorenzen, H. **126**, 1 (1980)
 Lorkiewicz, Z. **123**, 195 (1979)
130, 322 (1981)
 Losada, M. **128**, 137 (1980)
 Ludden, P. W. **130**, 155 (1981)
 Lüthy, P. **129**, 14 (1981)
130, 19 (1981)

M

- Maarzah, M. **127**, 87 (1980)
 Maass, D. **130**, 301 (1981)
 Macfarlane, G. T. **128**, 233 (1980)

- MacKay, R. M. **123**, 165 (1979)
 Maheshwari, R. **122**, 275 (1979)
 Maier, R. J. **12**, 1 (1979)
 Malik, K. A. **129**, 254 (1981)
 Malki, D. **130**, 105 (1981)
 Mannheim, W. **125**, 159 (1980)
 Mansurova, S. E. **128**, 394 (1981)
 Markovetz, A. J. **129**, 129 (1981)
 Marrs, B. L. **121**, 61 (1979)
 Marshall, K. C. **124**, 169 (1980)
 Martin, E. **129**, 165 (1981)
 Martin, H. H. **127**, 223 (1980)
127, 297 (1980)
 Martiny, H. **128**, 280 (1981)
 Matin, A. **124**, 91 (1980)
 Mayer, F. **121**, 9 (1979)
121, 147 (1979)
126, 1 (1980)
127, 87 (1980)
128, 288 (1981)
129, 275 (1981)
 Mayer, H. **127**, 217 (1980)
 Mayfield, M. B. **123**, 319 (1979)
 Mayne, B. C. **128**, 41 (1980)
 McFadden, B. A. **121**, 75 (1979)
129, 317 (1981)
 McFarlane, E. S. **124**, 243 (1980)
 McGetrick, A. M. T. **123**, 151 (1979)
 McInerney, M. J. **122**, 129 (1979)
 McKellar, I. R. **124**, 275 (1980)
 McLaughlin, J. J. A. **129**, 310 (1981)
 Mendgen, K. **123**, 129 (1979)
 Menzel, D. **130**, 344 (1981)
 Merrett, M. J. **124**, 33 (1980)
 Metzler, H. **129**, 123 (1981)
 Meyer, O. **121**, 9 (1979)
127, 301 (1980)
 Meyer, R. **130**, 125 (1981)
 Meyer, S. A. **122**, 93 (1979)
 Michéa-Hamzehpour, M. **125**, 53 (1980)
 Michels, P. A. M. **130**, 357 (1981)
 Migliorini, R. H. **123**, 251 (1979)
 Miller, P. A. **121**, 193 (1979)
 Miller, T. L. **124**, 137 (1980)
 Mills, G. L. **130**, 72 (1981)
 Miyake, H. **126**, 201 (1980)
126, 207 (1980)
 Miyata, H. **127**, 11 (1980)
 Miyata, M. **127**, 11 (1980)
 Modi, V. V. **130**, 262 (1981)
 Modrzakowski, M. C. **126**, 285 (1980)
 Mörschel, E. **125**, 43 (1980)
 Moinas, M. **128**, 157 (1980)
 Molenaar, E. M. **128**, 120 (1980)
 Moll, J. **123**, 105 (1979)
127, 59 (1980)
130, 319 (1981)
 Morris, D. W. **126**, 271 (1980)
 Morris, I. **129**, 42 (1981)
 Muckle, G. **127**, 253 (1980)
 Müller, H. **130**, 195 (1981)
 Müller, W. **123**, 203 (1979)
 Mulders, J. W. M. **130**, 159 (1981)
 Mur, L. R. **123**, 315 (1979)
125, 9 (1980)
125, 59 (1980)
129, 61 (1981)

- Murakami, K. **128**, 222 (1980)
 Musgrave, A. **126**, 77 (1980)
128, 120 (1980)
 Myers, J. **124**, 143 (1980)

N

- Nagaraja, V. **124**, 249 (1980)
 Nagy, M. **121**, 169 (1979)
 Nakamura, I. **127**, 47 (1980)
 Nakatsubo, F. **126**, 127 (1980)
128, 416 (1981)
129, 305 (1981)
129, 321 (1981)
130, 198 (1981)
 Nandi, A. S. **130**, 147 (1981)
 Nanninga, N. **123**, 173 (1979)
127, 39 (1980)
 Naumova, I. B. **126**, 71 (1980)
 Nawa, H. **128**, 145 (1980)
 Nealson, K. H. **129**, 299 (1981)
 Neijssel, O. M. **125**, 175 (1980)
 Nelson, R. K. **130**, 189 (1981)
 Neujahr, H. Y. **130**, 54 (1981)
 Neumann, D. **125**, 251 (1980)
 Nicholas, D. J. D. **122**, 249 (1979)
127, 77 (1980)
128, 421 (1981)
129, 344 (1981)
 Nichols, J. M. **127**, 67 (1980)
 Niederberger, P. **129**, 146 (1981)
 Niederpruem, D. J. **126**, 57 (1980)
128, 162 (1980)
128, 172 (1980)
 Niekus, H. G. D. **124**, 221 (1980)
127, 137 (1980)
 Niel, C. **129**, 391 (1981)
 Nies, M. **129**, 374 (1981)
 Nikitina, K. A. **129**, 105 (1981)
 Nill, K. **129**, 368 (1981)
 Nishimoto, M. **130**, 93 (1981)
 Nishimura, Y. **124**, 191 (1980)
 Nombela, C. **121**, 265 (1979)
 Norkrans, B. **128**, 267 (1981)
 Nosoh, Y. **126**, 103 (1980)
 Nultsch, W. **122**, 85 (1979)
122, 207 (1979)
123, 93 (1979)
125, 181 (1980)

O

- Oberlies, G. **128**, 248 (1980)
 O'Brien, M. J. **122**, 313 (1979)
 O'Brien, R. W. **125**, 175 (1980)
128, 307 (1981)
128, 311 (1981)
 O'Day, D. H. **121**, 231 (1979)

- Oelze, J. **123**, 287 (1979)
124, 97 (1980)
126, 187 (1980)
126, 195 (1980)
Ogawa, M. **130**, 90 (1981)
Ogawa, T. **122**, 57 (1979)
127, 25 (1980)
Ohisa, N. **125**, 221 (1980)
Ohta, M. **121**, 23 (1979)
Okabe, K. **124**, 149 (1980)
Oki, T. **125**, 285 (1980)
130, 134 (1981)
Olijve, W. **121**, 283 (1979)
121, 291 (1979)
Oltmann, L. F. **130**, 44 (1981)
Op den Camp, H. J. M. **124**, 197 (1980)
Oren, A. **122**, 77 (1979)
123, 311 (1979)
130, 185 (1981)
Orlowski, M. **126**, 133 (1980)
129, 353 (1981)
130, 189 (1981)
Oura, E. **122**, 121 (1979)
Overbeck, H. J. **122**, 137 (1979)

P

- Pahwa, K. **129**, 380 (1981)
Palleroni, N. J. **121**, 193 (1979)
128, 53 (1980)
Pan-Hou, H. S. **129**, 49 (1981)
130, 93 (1981)
Paone, D. A. M. **130**, 204 (1981)
Papen, H. **128**, 209 (1980)
Parameswaran, N. **126**, 87 (1980)
Parés, R. **121**, 9 (1979)
Parish, J. H. **126**, 175 (1980)
126, 271 (1980)
126, 277 (1980)
130, 150 (1981)
Parkin, T. B. **125**, 19 (1980)
Parrott, L. M. **127**, 53 (1980)
Parsons, T. F. **126**, 21 (1980)
Pascual, C. **121**, 17 (1979)
Patel, G. B. **129**, 265 (1981)
Patel, R. N. **122**, 241 (1979)
Paterno, G. D. **121**, 231 (1979)
Pažoutová, S. **129**, 251 (1981)
Peck, M. W. **127**, 99 (1980)
Pelzer, H. **130**, 301 (1981)
Penfold, H. A. **125**, 153 (1980)
Pérez, C. **121**, 17 (1979)
Perski, H.-J. **130**, 319 (1981)
Peschek, G. A. **123**, 81 (1979)
125, 123 (1980)
Peters, G. A. **128**, 41 (1980)
Petrella, B. **124**, 87 (1980)
Pfeifer, D. **127**, 203 (1980)
Pfennig, N. **122**, 129 (1979)
122, 177 (1979)
125, 73 (1980)
125, 105 (1980)
127, 125 (1980)
128, 330 (1981)
Pfennig, N. **129**, 395 (1981)
129, 401 (1981)
130, 255 (1981)
Phillips, G. P. **121**, 207 (1979)
Phillips, S. **128**, 341 (1981)
Pickett, C. L. **128**, 360 (1981)
Pincus, S. **122**, 301 (1979)
Pines, O. **130**, 129 (1981)
Pitt, D. E. **130**, 180 (1981)
Plapp, R. **127**, 203 (1980)
Poff, K. L. **123**, 281 (1979)
126, 97 (1980)
126, 181 (1980)
Pohl, S. **125**, 159 (1980)
Pokorný, V. **130**, 312 (1981)
Pol, A. **129**, 23 (1981)
Pommerville, J. **128**, 179 (1980)
Poots, M. **130**, 267 (1981)
Poralla, K. **129**, 53 (1981)
129, 368 (1981)
Porte, F. **127**, 1 (1980)
Postgate, J. R. **127**, 115 (1980)
Posthumus, M. A. **125**, 1 (1980)
Poulain, D. **123**, 245 (1979)
Powls, R. **122**, 313 (1979)
Prasad, A. R. S. **122**, 275 (1979)
Preiss, J. **126**, 21 (1980)
Preston, J. F. **122**, 161 (1979)
Preston, R. A. **121**, 235 (1979)
Priess, H. **125**, 259 (1980)
Pringle, J. R. **124**, 285 (1980)
Prior, B. **125**, 133 (1980)
Pritchard, G. G. **122**, 281 (1979)
126, 167 (1980)
Pucheu, N. L. **125**, 149 (1980)
Pühler, A. **121**, 1 (1979)
Purohit, K. **121**, 75 (1979)

Q

- Quaglia, M. **130**, 78 (1981)

R

- Rast, D. M. **130**, 195 (1981)
Raub, T. J. **128**, 384 (1981)
Reber, H. H. **126**, 65 (1980)
130, 243 (1981)
Řeháček, Z. **129**, 251 (1981)
Reichenbach, H. **126**, 291 (1980)
Reinbothe, H. **124**, 255 (1980)
Reinhertz, A. **129**, 67 (1981)
Reisinger, P. **127**, 187 (1980)
Reisser, W. **125**, 291 (1980)
129, 178 (1981)
Remennikov, V. G. **123**, 65 (1979)
125, 271 (1980)
Rhoads, D. D. **129**, 1 (1981)
Richmond, A. E. **125**, 143 (1980)
Richter, D. **124**, 229 (1980)
129, 29 (1981)
Rigano, C. **121**, 117 (1979)
129, 110 (1981)
130, 349 (1981)
Rigaud, J. **124**, 49 (1980)
Robb, F. T. **130**, 276 (1981)
Rodrigues, F. K. **126**, 175 (1980)
Röhr, M. **123**, 73 (1979)
128, 26 (1980)
Röll, A. **129**, 53 (1981)
Römer, W. **121**, 91 (1979)
Rössle, M. **130**, 288 (1981)
Rogers, P. J. **128**, 152 (1980)
Romero, O. **125**, 149 (1980)
Romesser, J. A. **121**, 147 (1979)
Roomans, G. M. **130**, 339 (1981)
Rose, A. H. **122**, 49 (1979)
Roselino, J. E. **123**, 251 (1979)
Ross, J. F. **129**, 353 (1981)
Rosson, R. A. **129**, 299 (1981)
Royt, P. W. **130**, 87 (1981)
Rüdiger, W. **127**, 253 (1980)
Rüger, H.-J. **126**, 83 (1980)
Ruiz-Argüeso, T. **121**, 199 (1979)
128, 275 (1981)
Rupprecht, M. **122**, 93 (1979)

S-Sch-St

- Sahl, H. G. **127**, 17 (1980)
Sahm, H. **126**, 141 (1980)
127, 119 (1980)
130, 362 (1981)
Sakaguchi, K. **124**, 161 (1981)
Samuilov, V. D. **123**, 65 (1979)
125, 271 (1980)
129, 105 (1981)
Sánchez, J. **125**, 111 (1980)
Sandler, N. **12**, 9 (1979)
Santos, T. **121**, 265 (1979)
Sarachek, A. **129**, 1 (1981)
Savitt, E. **122**, 29 (1979)
Scott, C. A. **121**, 141 (1979)
Scott, D. B. **121**, 141 (1979)
Sedewitz, B. **125**, 209 (1980)
125, 215 (1980)
Seibold, M. **129**, 368 (1981)
Seidel, H. **127**, 187 (1980)
Seidl, P. H. **127**, 173 (1980)
Sekine, T. **122**, 57 (1979)
Selyach, I. O. **128**, 394 (1981)
Sen, S. P. **130**, 147 (1981)
Sesnowitz-Horn, S. **126**, 161, (1980)
Shah, K. **130**, 262 (1981)
Shanmugam, K. T. **123**, 259 (1979)
Shavlovsky, G. M. **124**, 255 (1980)
Shaw, D. H. **125**, 83 (1980)
Shepherd, M. G. **125**, 97 (1980)
Shilo, M. **122**, 77 (1979)
130, 185 (1981)
Shimada, M. **128**, 416 (1981)
129, 321 (1981)

Shimoda, C. **129**, 19 (1981)
 Shively, J. M. **124**, 185 (1980)
 Sias, S. R. **122**, 263 (1979)
 Sidler, W. **129**, 268 (1981)
 Siebers, J. **121**, 111 (1979)
 Siefert, E. **122**, 177 (1979)
125, 73 (1980)
125, 105 (1980)
 Simon, H. **125**, 159 (1980)
127, 279 (1980)
 Simpson, F. B. **123**, 1 (1979)
 Sintsov, N. V. **128**, 239 (1980)
 Skorupska, A. **130**, 322 (1981)
 Skurk, A. **121**, 91 (1979)
 Slater, J. H. **127**, 53 (1980)
 Smart, J. B. **122**, 281 (1979)
 Smith, D. W. **122**, 257 (1979)
129, 199 (1981)
 Snozzi, M. **130**, 125 (1981)
 Socransky, S. S. **122**, 9 (1979)
122, 17 (1979)
122, 29 (1979)
 Song, P. S. **126**, 181 (1980)
 Spiess, E. **121**, 147 (1979)
 Spitzbarth, M. **121**, 1 (1979)
 Squires, M. J. **125**, 83 (1980)
 Srivastava, O. P. **1209**, 227 (1981)
 Suginaka, H. **130**, 90 (1981)
 Sullivan, C. W. **123**, 157 (1979)
 Sullivan, P. A. **125**, 97 (1980)
 Sundermeyer, H. **130**, 250 (1981)
 Suomalainen, H. **122**, 121 (1979)
 Svensson, M.-L. **129**, 210 (1981)
 Schäfer, R. **124**, 111 (1980)
 Schäffler, M. J. **129**, 85 (1981)
 Schedel, M. **121**, 29 (1979)
124, 205 (1980)
 Schellenberg, M. **123**, 23 (1979)
 Schiefer, H.-G. **127**, 297 (1980)
 Schilf, W. **127**, 297 (1980)
 Schimz, K.-L. **121**, 225 (1979)
125, 89 (1980)
 Schindler, B. **121**, 193 (1979)
 Schlecht, S. **124**, 69 (1980)
127, 81 (1980)
 Schlee, D. **124**, 255 (1980)
 Schlegel, H. G. **121**, 9 (1979)
127, 301 (1980)
129, 254 (1981)
 Schleifer, G. **130**, 328 (1981)
130, 334 (1981)
 Schleifer, K.-H. **122**, 93 (1979)
123, 209 (1979)
127, 173 (1980)
127, 179 (1980)
 Schlesier, M. **129**, 150 (1981)
 Schmauder, H.-P. **125**, 251 (1980)
 Schmid, G. H. **127**, 33 (1980)
 Schmidt, A. **127**, 259 (1980)
 Schmidt, K. **124**, 21 (1980)
127, 87 (1980)
 Schmidt, W. **127**, 209 (1980)
127, 217 (1980)
 Schmitt, W. **130**, 328 (1981)
130, 334 (1981)
 Schmitz, G. **124**, 55 (1980)
 Schocher, A. **121**, 193 (1979)

Schön, G. **125**, 245 (1980)
 Schönheit, P. **123**, 105 (1979)
127, 59 (1980)
 Scholten, A. **128**, 271 (1981)
 Scholten-Koerselman, I. **125**, 1 (1980)
 Scholz, I. **125**, 259 (1980)
 Schrader, M. **123**, 287 (1979)
 Schrauwen, J. A. M. **122**, 1 (1979)
129, 257 (1981)
 Schreyer, R. **127**, 289 (1980)
 Schröder, K. **121**, 111 (1979)
 Schuchart, H. **122**, 85 (1979)
122, 207 (1979)
125, 181 (1980)
128, 105 (1980)
 Schulz, I. **127**, 231 (1980)
 Schulz, W. **125**, 259 (1980)
 Schumacher, A. **128**, 376 (1981)
 Schwartz, A. C. **123**, 203 (1979)
124, 111 (1980)
 Schwarzhoff, R. H. **129**, 1 (1981)
 Schwencke, J. **121**, 169 (1979)
 Schwitzguébel, J.-P. **122**, 103 (1979)
122, 109 (1979)
124, 63 (1980)
 Stackebrandt, E. **127**, 179 (1980)
129, 85 (1981)
 Stäheli, P. **129**, 146 (1981)
 Staehelin, A. L. **129**, 240 (1981)
129, 295 (1981)
 Stanton, T. B. **127**, 145 (1980)
 Steber, J. **123**, 209 (1979)
 Steglich, W. **130**, 223 (1981)
 Steinlauf, R. **128**, 45 (1980)
 Steinmetz, M. A. **130**, 31 (1981)
 Stephan, M. P. **130**, 96 (1981)
 Stetter, K. O. **125**, 259 (1980)
 Stevens, S. E., Jr. **128**, 8 (1980)
130, 204 (1981)
 Stewart, W. D. P. **124**, 107 (1980)
124, 149 (1980)
 Stille, B. **129**, 109 (1981)
 Storø, I. **129**, 317 (1981)
 Stouthamer, A. H. **121**, 213 (1979)
124, 221 (1980)
125, 239 (1980)
127, 137 (1980)
130, 44 (1981)
 Strohl, W. R. **129**, 357 (1981)
 Stucki, G. **130**, 366 (1981)
 Stupperich, E. **127**, 267 (1980)
128, 56 (1980)
128, 64 (1980)
130, 294 (1981)

T

Tabillion, R. **124**, 131 (1980)
 Tabita, F. R. **121**, 155 (1979)
 Tait, R. C. **129**, 384 (1981)
 Takata, N. **130**, 90 (1981)
 Takemaru, T. **126**, 201 (1980)
 Tanaka, A. **128**, 145 (1980)
 Tanaka, K. **126**, 207 (1980)
128, 215 (1980)

Tandau de Marsac, N. **123**, 113 (1979)
 Taneja, R. **129**, 81 (1981)
 Tanner, A. C. R. **122**, 29 (1979)
 Tanner, W. **127**, 231 (1980)
 Taylor, B. F. **122**, 301 (1979)
130, 101 (1981)
 Taylor, C. D. **130**, 1 (1981)
130, 8 (1981)
 Taylor, V. K. **128**, 152 (1980)
 Tempest, D. W. **123**, 183 (1979)
123, 189 (1979)
125, 175 (1980)
 Terenzi, H. F. **123**, 251 (1979)
 Thaler, M. **127**, 105 (1980)
 Thauer, R. K. **122**, 117 (1979)
123, 105 (1979)
123, 301 (1979)
124, 103 (1980)
125, 167 (1980)
127, 59 (1980)
127, 273 (1980)
128, 248 (1980)
128, 256 (1980)
130, 319 (1981)
 Then, J. **130**, 143 (1981)
130, 234 (1981)
 Theodorou, M. K. **130**, 372 (1981)
 Thijssen, P. **125**, 79 (1980)
 Thomas, D. S. **122**, 49 (1979)
 Thurston, C. F. **128**, 98 (1980)
 Tiedje, J. M. **129**, 135 (1981)
 Tindall, B. J. **130**, 238 (1981)
 Ton That, T.-C. **125**, 53 (1980)
 Tone, H. **125**, 285 (1980)
 Trebst, A. **127**, 245 (1980)
 Trinchant, J. C. **124**, 49 (1980)
 Trinci, A. P. J. **128**, 113 (1980)
130, 372 (1981)
 Tromballa, H. W. **129**, 325 (1981)
 Tromp, A. Gr. G. M. **129**, 47 (1981)
 Tronchin, G. **123**, 245 (1979)
 Trüper, H. G. **121**, 29 (1979)
121, 251 (1979)
124, 205 (1980)
127, 17 (1980)
130, 143 (1981)
130, 228 (1981)
130, 234 (1981)
130, 238 (1981)
 Tsang, J. C. **130**, 307 (1981)
 Tschesche, H. **127**, 187 (1980)
 Tsuchiya, E. **128**, 215 (1980)
 Tsuji, K. **125**, 35 (1980)
 Tsukada, T. **128**, 222 (1980)
128, 228 (1980)
 Tsushima, K. **128**, 222 (1980)
 Turian, G. **125**, 53 (1980)
 Tuzar, Z. **130**, 312 (1981)
 Tyagi, V. V. S. **128**, 41 (1980)

U

Uecker, W. **121**, 103 (1979)
 Ulitzur, S. **129**, 67 (1981)

- Urbanek, H. **129**, 247 (1981)
 Urech, K. **121**, 169 (1979)
123, 23 (1979)

V

- Valerie, K. **129**, 210 (1981)
129, 213 (1981)
 Van den Bos, R. C. **129**, 349 (1981)
 Van den Briel, W. **126**, 77 (1980)
 Van den Ende, H. **126**, 77 (1980)
128, 120 (1980)
 Van den Oord, J. F. **129**, 47 (1981)
 Van der Drift, Ch. **124**, 197 (1980)
128, 398 (1981)
 Van der Werf, B. **124**, 261 (1980)
 Vanselow, M. **121**, 29 (1979)
 van't Riet, J. **127**, 39 (1980)
130, 44 (1981)
 Veenhuis, M. **124**, 115 (1980)
126, 117 (1980)
129, 35 (1981)
129, 72 (1981)
 Veide, A. **128**, 253 (1980)
 Verseveld, H. W. van **121**, 213 (1979)
 Vignais, P. M. **122**, 145 (1979)
127, 1 (1980)
 Villanueva, J. R. **121**, 265 (1979)
 Virrankoski-Castrodeza, V. **126**, 175 (1980)
126, 271 (1980)
126, 277 (1980)
 Voelskow, H. **125**, 245 (1980)
 Vohmann, H. J. **123**, 143 (1979)
 Volpon, A. G. T. **128**, 371 (1981)
 Vona, V. **121**, 117 (1979)
129, 110 (1981)
130, 349 (1981)
 Vujčić, R. **126**, 245 (1980)

W

- Wagenmann, R. **127**, 253 (1980)
 Wagner, R. **121**, 255 (1979)
 Wakim, B. **123**, 287 (1979)
124, 97 (1980)

- Walther-Mauruschat, A. **121**, 147 (1979)
 Walton, E. F. **124**, 285 (1980)
 Wang, R. T. **124**, 143 (1980)
 Wanka, F. **125**, 79 (1980)
 Waterborg, J. H. **122**, 195 (1979)
 Weber, B. **127**, 273 (1980)
 Weber, F. **124**, 131 (1980)
 Weber, W. **121**, 111 (1979)
 Weckesser, J. **127**, 209 (1980)
127, 217 (1980)
 Wee, S. **130**, 307 (1981)
 Wehrmeyer, W. **125**, 43 (1980)
129, 374 (1981)
 Weltring, K.-M. **130**, 381 (1981)
 Wendelberger-Schieweg, G. **126**, 109 (1980)
 Werner, D. **122**, 153 (1979)
128, 209 (1980)
 Westphal, K. **121**, 187 (1979)
 Whitt, D. D. **122**, 169 (1979)
 Widdel, F. **129**, 395 (1981)
129, 401 (1981)
 Widmer, H. **129**, 268 (1981)
 Wiegel, J. **128**, 343 (1981)
130, 385 (1981)
 Wiemken, A. **121**, 169 (1979)
123, 23 (1979)
 Wientjes, F. B. **127**, 39 (1980)
 Wijbenga, D.-J. **129**, 115 (1981)
 Wilcockson, J. **122**, 153 (1979)
 Wilkinson, B. J. **130**, 307 (1981)
 Wilkinson, C. R. **123**, 101 (1979)
 Williams, B. L. **122**, 35 (1979)
 Winkelmann, G. **121**, 43 (1979)
 Winkler, E. **129**, 100 (1981)
 Winkler, U. **121**, 181 (1979)
 Winter, J. **121**, 97 (1979)
123, 275 (1979)
124, 73 (1980)
 Witzel, K.-P. **122**, 137 (1979)
 Woese, C. R. **123**, 165 (1979)
 Wolfe, R. S. **121**, 97 (1979)
121, 147 (1979)
124, 73 (1980)
129, 275 (1981)
 Wolin, M. J. **124**, 137 (1980)
 Wood, A. P. **122**, 307 (1979)
128, 91 (1980)
 Woodcock, E. **124**, 33 (1980)
 Woodrow, S. **122**, 313 (1979)
 Woods, D. R. **130**, 276 (1981)
 Woolkalis, M. J. **130**, 111 (1981)

- Wright III, W. **129**, 160 (1981)
 Wuhrmann, K. **124**, 1 (1980)
 Wullenweber, M. **128**, 204 (1980)
128, 280 (1981)
 Wunderl, S. **125**, 259 (1980)

Y

- Yagi, T. **125**, 35 (1980)
 Yajima, Y. **123**, 319 (1979)
 Yamada, T. **124**, 161 (1980)
128, 145 (1980)
 Yamaguchi, M. **125**, 221 (1980)
 Yamanaka, G. **124**, 39 (1980)
130, 23 (1981)
 Yanagishima, N. **129**, 281 (1981)
 Yee, B. C. **130**, 14 (1981)
 Yoshimoto, A. **130**, 134 (1981)
 Yoshino, M. **128**, 222 (1980)
128, 228 (1980)
 Yu, P.-L. **128**, 390 (1981)

Z

- Zablen, L. B. **123**, 165 (1979)
 Zähler, H. **121**, 111 (1979)
122, 219 (1979)
126, 223 (1980)
130, 195 (1981)
 Zakalsky, A. E. **124**, 255 (1980)
 Zalewska-Sobczak, J. **129**, 247 (1981)
 Zdrou, I. **129**, 325 (1981)
 Zeeck, A. **121**, 111 (1979)
 Zehnder, A. J. B. **124**, 1 (1980)
 Zeikus, J. G. **122**, 41 (1979)
128, 365 (1981)
 Zevenboom, W. **125**, 59 (1980)
129, 61 (1981)
 Zevenhuizen, L. P. T. M. **125**, 1 (1980)
 Ziegler, H. **128**, 407 (1981)
 Zillig, W. **125**, 259 (1980)
 Zuber, H. **129**, 268 (1981)
 Zumft, W. G. **130**, 138 (1981)
 Zwart, K. **126**, 117 (1980)
129, 35 (1981)
 Zuck, R. M. **121**, 277 (1979)
 Żurkowski, W. **123**, 195 (1979)

Subject Index

A

- Acetate** decarboxylation by a methane bacterium **123**, 1 (1980)
 – assimilation by *Desulfovibrio vulgaris* **123**, 301 (1979)
 – thiokinase in *Methanobacterium thermoautotrophicum* **128**, 248 (1980)
 – assimilation in *Methanobacterium thermoautotrophicum* **128**, 248 (1980)
 – thiokinase in *Methanobacterium thermoautotrophicum* **128**, 248 (1980)
 – influence in *Rhodopseudomonas capsulata* **129**, 115 (1981)
 – sulfate-reducing bacteria enriched with **129**, 395 (1981)
 – movement across cytoplasmic membrane of *Cyanobacteria* **130**, 175 (1981)
- Acetate metabolism**, influence of heterotrophic nitrification by *Arthrobacter* **122**, 137 (1979)
- Acetic acid**, formation by *Clostridium aceticum* **128**, 288 (1981)
- Acetivibrio cellulolyticus**, iodophilic polysaccharide accumulation **129**, 265 (1981)
- Acetobacter aceti**, pyruvate, orthophosphate dikinase **122**, 103 (1979)
 – –, phosphoenolpyruvate carboxylase **122**, 109 (1979)
 – –, oxaloacetate decarboxylase **124**, 63 (1980)
- Acetobacter suboxydans**, bacteriophage A-1 **121**, 193 (1979)
- Acetobacterium woodii**, conversion of carbohydrate to methane and carbon dioxide **121**, 97 (1979)
 – –, hydrogen transfer to methanogens **124**, 73 (1980)
 – –, effect of molecular hydrogen on growth **128**, 294 (1981)
 – –, growth yields **130**, 255 (1981)
 – –, selected isolation on methoxylated aromatic acids **130**, 255 (1981)
- Acetogenium kivui** **129**, 275 (1981)
- Acetyl coenzyme A**, content in *Clostridium kluyveri* **130**, 288 (1981)
- Acetylene**, metabolism by *Rhodococcus* **127**, 99 (1980)
- Acholeplasma laidlawii**, penicillin binding proteins **127**, 297 (1980)
- Achromobacter carboxydus**, physiological characteristics **127**, 301 (1980)
- Acids**, organic, growth of *Rhizobium japonicum* **122**, 153 (1979)
 – –, teichoic, occurrence in Streptomycetes **126**, 71 (1980)
 – –, phthalic, catabolism by a bacterium **130**, 101 (1981)
 – –, pleurotellic, isolation from *Pleurotellus hypnophilus* **130**, 223 (1981)
 – –, aromatic, methoxylated, isolation of *Acetobacterium woodii* **130**, 255 (1981)
- Acid hybridisation**, biochemical and nucleic on *Brevibacterium linens* **129**, 85 (1981)
- Acid phosphatase** from yeast **123**, 233 (1979)
 – – in γ -amino-*n*-butyrate uptake in *Aspergillus nidulans* **125**, 153 (1980)
- Acinetobacter**, dialkyl ether metabolism **126**, 285 (1980)
- Acinetobacter calcoaceticus**, rubredoxin content **128**, 263 (1980)
 – –, phage resistance and emulsan production **130**, 129 (1981)
- Actinoplanaceae**, chemotactic method for isolation **128**, 53 (1980)
- Aculeacin A**, lysis of *Schizosaccharomyces pombe* **127**, 11 (1980)
- Adaptation**, chromatic of *Mastigocladus laminosus* **129**, 268 (1981)
- Adenine** in *Alcaligenes eutrophus* H 16 **125**, 29 (1980)
- Adenosine deaminase** from *Azotobacter vinelandii* **128**, 228 (1980)
- Adenosine pentaphosphate**, determination in microorganisms **130**, 134 (1981)
- Adenosine triphosphate**, levels in *Arthrobacter crystallopoietes* **122**, 61 (1979)
- Adenosine-5'-triphosphate-3'-diphosphate**, effect on *Streptomyces galilaeus* **125**, 285 (1980)
- Adenylate energy charge** in *Saccharomyces diastaticus* **129**, 47 (1981)
- Adenylate kinase** of *Thiobacillus novellus* **124**, 275 (1980)
- Adenylyl cyclase** of *Neurospora crassa* **123**, 251 (1979)
- ADPglucose pyrophosphorylase** from *Rhodopseudomonas sphaeroides* and *Rhodopseudomonas gelatinosa* **126**, 21 (1980)
- Aeromonas hydrophila**, glucans **125**, 83 (1980)
- Agarose gel electrophoresis**, genome analysis of *Streptomyces glaucescens* **130**, 218 (1981)
- Agglutination** of gametic flagella from *Chlamydomonas reinhardtii* **127**, 239 (1980)
- Aggregates**, membranous of *Aspergillus flavus* **126**, 245 (1980)
- Aggregation**, inhibition by light in *Dictyostelium discoideum* **123**, 281 (1979)
- Agmenellum quadruplicatum**, glycocalyx **128**, 8 (1980)
 – –, nitrogen limitation **130**, 204 (1981)
 – –, biotransformation of aniline **130**, 272 (1981)
- Akinetes** of *Anabaena* **122**, 289 (1979)
 – –, formation in *Anabaena cylindrica* **127**, 67 (1980)
- Alanine**, utilization by *Rhodopseudomonas acidophila* **125**, 105 (1980)
 – –, dehydrogenase of *Streptomyces clavuligerus* **125**, 137 (1980)
 – –, synthesis in *Methanobacterium thermoautotrophicum* **130**, 288 (1981)
- Alcaligenes eutrophus**, nickel requirement for growth **124**, 131 (1980)
 – –, efficiency of CO₂ fixation **128**, 84 (1980)
 – –, soluble hydrogenase **129**, 150 (1981)
 – –, plasmids **129**, 384 (1981)
- Alcaligenes entrophus H 16**, purine utilization **125**, 29 (1980)
- Alcaligenes latus**, nitrogen fixation **129**, 254 (1981)
- Alcohol synthesis**, regulation in *Hansenula polymorpha* **127**, 119 (1980)
- Aldehyde dehydrogenase** from *Methylomonas methylovora* **122**, 241 (1979)
- Algae**, nitrate utilization by *Cyanidium caldarium* **130**, 349 (1981)
- Allomyces macrogynus**, cell wall formation **128**, 179 (1980)
- Allophycocyanin aggregates**, analysis of *Rhodella violacea* **125**, 43 (1980)
- Alteromonas luteo-violaceus**, sulfate metabolism **130**, 1 (1981)
 – –, sulfur metabolism **130**, 8 (1981)
- Amanita brunnescens**, amanitin resistance **122**, 161 (1979)
- Amanita hygroscopica**, amanitin resistance **122**, 161 (1979)
- Amanita solitaria**, amanitin resistance **122**, 161 (1979)
- Amanita suballiacea**, amanitin resistance **122**, 161 (1979)
- Amanitin**, resistance of RNA synthesis **122**, 161 (1979)
- Amidase** in *Pseudomonas aeruginosa* **125**, 277 (1980)
- Amide metabolism** of *Chlamydomonas reinhardtii* **128**, 303 (1981)
- Amine oxidase**, peroxisomes in yeasts **126**, 117 (1980)
 – – in *Arthrobacter* **129**, 72 (1981)
- Amines**, utilization by yeasts **128**, 320 (1981)
- Amino acid**, utilization in Clostridia **123**, 137 (1979)
- Amino acid pool**, intracellular, of *Debaryomyces hansenii* **124**, 123 (1980)
 – – – of *Trichoderma aureoviride* **130**, 180 (1981)
- Amino acid sequence** of *Methanobacterium thermoautotrophicum* **121**, 271 (1979)
- γ -Amino-*n*-butyrate, uptake in *Aspergillus nidulans* **125**, 153 (1980)
- Ammonia**, assimilation in *Cyanidium caldarium* **121**, 117 (1979)
 – –, uptake in *Nitrosomonas europaea* **122**, 249 (1979)
 – –, assimilation in *Pseudomonas aeruginosa* **124**, 197 (1980)
 – –, inhibition by *Anacystis nidulans* **128**, 137 (1980)
 – –, limitation and uptake by *Oscillatoria agardhii* **129**, 61 (1981)
 – –, assimilation in *Cyanidium caldarium* **129**, 110 (1981)

- Ammonia**, assimilation in *Rhizobium meliloti* **129**, 391 (1981)
 , in *Rhodopseudomonas palustris* **130**, 138 (1981)
 , inhibition in *Cyanidium caldarium* **130**, 349 (1981)
- AMP-degradation**, metabolic pathways in *Azotobacter vinelandii* **128**, 222 (1980)
- Amphidinium carterae**, phosphate uptake **128**, 307 (1981)
 , cysteine uptake **128**, 311 (1981)
 , methionine uptake **128**, 311 (1981)
 – –, sulphate uptake **128**, 311 (1981)
 , taurine uptake **128**, 311 (1981)
- Amphidinium klebsii**, phosphate uptake **128**, 307 (1981)
 – –, cysteine uptake **128**, 311 (1981)
 – –, methionine uptake **128**, 311 (1981)
 – –, sulphate uptake **128**, 311 (1981)
 – –, taurine uptake **128**, 311 (1981)
- Anabaena**, nitrogen fixation **121**, 155 (1979)
 –, akinetes **122**, 289 (1979)
 –, hydrogen inhibition **126**, 1 (1980)
- Anabaena azollae**, antigenicity **128**, 126 (1980)
 – –, antigenic differences from *Azolla caroliniana* **128**, 126 (1980)
 – –, occurrence of coryneform bacteria **127**, 163 (1980)
- Anabaena cylindrica**, electron transfer **123**, 37 (1979)
 – –, photosynthetic and photorespiratory enzymes **124**, 149 (1980)
 – –, effect of canavanine **127**, 67 (1980)
 – –, endonucleases **128**, 242 (1980)
 – –, microplasmodesmata **129**, 295 (1981)
- Anabaena oscillarioides**, endonucleases **128**, 242 (1980)
- Anabaena subcylindrica**, endonucleases **128**, 242 (1980)
- Anabaena variabilis**, phototaxis **122**, 85 (1979)
 – –, structure of akinete germination **126**, 257 (1980)
 – –, endonucleases **128**, 242 (1980)
 – –, role of cytochrome *c*-553 and plastocyanin **128**, 336 (1981)
 – –, microplasmodesmata **129**, 295 (1981)
- Anacystis nidulans**, hydrogen metabolism **123**, 81 (1979)
 – –, DNA level **123**, 109 (1979)
 – –, pigment mutants **124**, 143 (1980)
 – –, auxotrophs **124**, 177 (1980)
 , respiratory chain **125**, 123 (1980)
 – –, macromolecular composition **127**, 53 (1980)
 , nitrate utilization **128**, 137 (1980)
 , ammonium inhibition **128**, 137 (1980)
 , respiratory oscillation induction **129**, 123 (1981)
 , chloride transport **129**, 325 (1981)
 , isocitrate dehydrogenase **129**, 331 (1981)
 – –, accumulation of guanosine tetraphosphate **129**, 341 (1981)
 , light-dependent inorganic pyrophosphate **129**, 371 (1981)
- Anaplerotic pathways**, reactions and regulation in *Thermus aquaticus* **129**, 173 (1981)
- Anastomoses** of *Diplodia natalensis* **130**, 105 (1981)
- Aniline**, biotransformation and toxicity in cyanobacteria **130**, 272 (1981)
- Ankistrodesmus**, biochemical taxonomy **126**, 11 (1980)
- Anthraquinones** of *Aspergillus glaucus* **126**, 223 (1980)
 , biological activity in *Aspergillus glaucus* **126**, 231 (1980)
- Antibiotic**, peptid, new, from *Streptomyces olivaceus* **122**, 219 (1979)
- Antibiotics**, antifungal, Aculeacin A **127**, 11 (1980)
 , streptozotocin **128**, 196 (1980)
 – from basidiomycetes **130**, 223 (1981)
- Aphanocapsa**, acetate movement across the cytoplasmic membrane **130**, 175 (1981)
- Aphanocapsa 6308**, nitrogen limitation and recovery **128**, 1 (1980)
- Arabitol**, accumulation in *Geotrichum candidum* **126**, 57 (1980)
- Archaeobacteria**, taxonomy of *Sulfolobus sulfataricus* and *Sulfolobus brierleyi* **125**, 259 (1980)
- Arginine**, sequestration in vacuoles of yeast **121**, 169 (1979)
- Aromatic substrates**, utilization by *Pseudomonas putida* **130**, 243 (1981)
- Arthrobacter**, heterotrophic nitrification **122**, 137 (1979)
 –, isolation of a galactogen utilizing strain **124**, 87 (1980)
 –, nickel requirement for growth **124**, 131 (1980)
 –, amine oxidase **129**, 72 (1981)
- Arthrobacter crystallopoietes**, ATP levels **122**, 61 (1979)
 –, endogenous metabolism **122**, 61 (1979)
 –, energy charge **122**, 69 (1979)
 , growth **122**, 61 (1979)
 , 122, 69 (1979)
 – –, starvation **122**, 61 (1979)
 , 122, 69 (1979)
- Aryl carotenoids**, biosynthesis in *Chlorobium limicola* f. *thiosulfatophilum* **123**, 267 (1979)
- Ascodichaena rugosa**, ultrastructure **126**, 87 (1980)
- Ascomycetes**, phenoloxidases of *Podospira anserina* **130**, 121 (1981)
- Ascospores** of *Saccharomyces* and *Kluyveromyces* species **121**, 53 (1979)
- Aspartokinase**, mutants of *Saccharomyces cerevisiae* **129**, 368 (1981)
- Aspergillus flavus**, hyphal tips **126**, 245 (1980)
- Aspergillus glaucus**, anthraquinones **126**, 223 (1980)
 , 126, 231 (1980)
- Aspergillus nidulans**, chemical composition **123**, 151 (1979)
 –, acid phosphatase, role in uptake γ -amino-*n*-butyrate **125**, 153 (1980)
 –, anaplerotic metabolism **128**, 282 (1981)
- Aspergillus niger**, manganese deficiency **123**, 73 (1979)
 –, amino acids **123**, 73 (1979)
 –, influence of manganese **128**, 26 (1980)
- ATP content**, decrease in *Saccharomyces cerevisiae* **121**, 225 (1979)
- ATP production** in *Thiobacillus denitrificans* **128**, 19 (1980)
- ATP synthesis** in *Rhodopseudomonas capsulata*, venturicidin effect **129**, 94 (1981)
 –, stoichiometry in *Vibrio succinogenes* **129**, 100 (1981)
- Auxotrophs**, isolation of *Anacystis nidulans* **124**, 177 (1980)
- Azolla caroliniana**, coryneform bacteria in the leaf activity **127**, 163 (1980)
 –, phycobiliproteins **128**, 41 (1980)
 –, antigenic differences from *Anabaena azollae* **128**, 126 (1980)
- Azospirillum**, serological differentiation **126**, 217 (1980)
 –, transformation of inorganic nitrogen **130**, 96 (1981)
- Azospirillum brasilense**, nitrate respiration **121**, 141 (1979)
 –, nitrogenase activity **121**, 141 (1979)
 –, nitrogenase and hydrogenase activities **125**, 67 (1980)
 –, biphasic nitrogenase activity **128**, 209 (1980)
- Azospirillum lipoferum**, nitrate respiration **121**, 141 (1979)
 –, nitrogenase activity **121**, 141 (1979)
 –, physiology of nitrogen fixation **128**, 371 (1981)
- Azotobacter vinelandii**, adenine nucleotide metabolism **128**, 222 (1980)
 –, adenosine deaminase **128**, 228 (1980)
 –, levels of guanosine 5'-diphosphate 3'-diphosphate **128**, 341 (1981)
 –, glutamine synthetase **128**, 412 (1981)
 –, nitrogenase **128**, 412 (1981)
 –, metronidazole **129**, 344 (1981)

B

- Bacillus**, aerobic and anaerobic catabolism **130**, 101 (1981)
- Bacillus acidocaldarius**, ω -cyclohexane fatty acids **129**, 53 (1981)
- Bacillus caldolyticus**, growth at 100°C **129**, 127 (1981)
 –, enzyme properties **130**, 159 (1981)
- Bacillus caldotenax**, metabolic regulation **124**, 13 (1980)
 –, membrane and growth temperature **126**, 103 (1980)

- Bacillus cereus**, protein synthesis 121, 235 (1979)
 — —, translation of spore polypeptides 129, 160 (1981)
 — —, mesosomes 130, 19 (1981)
- Bacillus coagulans**, ω -cyclohexane fatty acids 129, 53 (1981)
- Bacillus fastidiosus**, glyoxylate metabolism 121, 129 (1979)
- Bacillus globisporus subsp. marinus**, mineral salt requirements 126, 83 (1980)
- Bacillus licheniformis**, immunoferritin labeling 127, 39 (1980)
- Bacillus stearothermophilus**, response to inhibition of tRNA acylation 129, 29 (1981)
- Bacillus subtilis**, mode of action of primycin 121, 135 (1979)
 — —, growth cycle 123, 9 (1979)
 — —, cell cycle 123, 173 (1979)
 — —, isolation of proteases 129, 227 (1981)
- Bacillus thuringiensis**, subunits of parasporal crystal 129, 14 (1981)
- Bacteria**, hydrogen-oxidizing, R-bodies 121, 9 (1979)
 —, psychrophilic, lipid composition 121, 121 (1979)
 —, marine, methanogenic, taxonomy 121, 147 (1979)
 —, sulfate-reducing, reduction of colloidal sulfur 121, 261 (1979)
 —, luminous, anaerobic luciferase synthesis 121, 277 (1979)
 —, free-living and attached, activity 122, 271 (1979)
 —, phototrophic, photooxidase activity 123, 65 (1979)
 —, budding, ultrastructural study 123, 213 (1979)
 —, bioaccumulation of silver 123, 239 (1979)
 —, hydrogen-oxidizing, nickel requirement 124, 131 (1980)
 —, phototrophic, growth 125, 19 (1980)
 —, phototrophic, light quality 125, 19 (1980)
 —, psychrotrophic, lipid composition 126, 51 (1980)
 —, marine, salt requirements of *Bacillus globisporus* 126, 83 (1980)
 —, phototrophic, temperature dependent, and energy metabolism 126, 195 (1980)
 —, cellulolytic, interaction with *Treponema bryantii* sp. nov. 127, 145 (1980)
 —, lithotrophic, ammonia oxidizing, serological studies 128, 204 (1980)
 —, hydrophobicity 128, 267 (1981)
 —, sulfate-reducing, short chain fatty acids 128, 330 (1981)
 —, extreme thermophilic, anaerobic 128, 343 (1981)
 —, chemoorganotrophic, anaerobic, thermophilic 128, 365 (1981)
 —, thermophilic, acetogenic, *Acetogenium kivui* 129, 275 (1981)
 —, marine, bioluminescence 129, 299 (1981)
 —, photosynthetic, succinyl-Coenzyme A 129, 335 (1981)
 —, new sulfate-reducing from saline environments 129, 395 (1981)
 —, sulfate-reducing, sporulation 129, 401 (1981)
 —, phototrophic, *Ectothiorhodospira* sp. nov. 130, 238 (1981)
 —, phototrophic, *Rhodospirillum salexigens*, spec. nov. 130, 325 (1981)
 —, anaerobic, α -isopropylmalate synthase 130, 385 (1981)
- Bacteriophage A-I**, isolation from *Acetobacter suboxydans* 121, 193 (1979)
- Bacteriophage heads**, supercoiling in the DNA 126, 277 (1980)
- Bacteriophage K7**, infection of *Escherichia coli* 126, 271 (1980)
- Bacteriophages** from *Myxococcus xanthus* 126, 175 (1980)
- Bacteriorhodopsin** in halobacteria 130, 185 (1981)
- Bacterium**, methane, acetate-decarboxylating 123, 1 (1980)
- Bacteroides fragilis**, α -Isopropylmalate synthase 130, 385 (1981)
- Bacteroides succinogenes**, interaction with *Treponema bryantii* sp. nov. 127, 145 (1980)
- Bacteroids**, hydrogen uptake in soybean nodules 121, 199 (1979)
- Basidiomycete**, fruit body formation 121, 37 (1979)
 —, vanillate hydroxylase from *Phanerochaete chrysosporium* 123, 319 (1979)
 —, *Phallus impudicus* meiosis 128, 403 (1981)
 —, antibiotics 130, 223 (1981)
- Basidiospores**, formation in *Coprinus macrorrhizus* 126, 207 (1980)
 —, development in *Phallus impudicus* 128, 403 (1981)
- Bean rust**, host-parasite interactions 123, 129 (1979)
- Beggiatoa alba**, mixotrophic and heterotrophic growth 129, 357 (1981)
- Beneckea harveyi**, anaerobic luciferase synthesis 121, 277 (1979)
 — —, cellular luciferase 129, 67 (1981)
- Beneckea natriegens**, effect of glucose and formate 129, 119 (1981)
- Benzoates**, monohalogenated, metabolism 122, 301 (1979)
- Biliproteins**, assembly in phycobilisomes of *Rhodella violacea* 125, 43 (1980)
 — of *Gloeobacter violaceus* 129, 190 (1981)
- Biliprotein complexes** in *Mastigocladus laminosus* 129, 374 (1981)
- Biogenesis** in *Hansenula polymorpha* 129, 35 (1981)
- Bioluminescence**, bacterial, autoinduction 129, 299 (1981)
- Biomass synthesis**, effect of anaerobic metabolism of *Aspergillus nidulans* 128, 282 (1981)
- Biosynthesis** in *Streptomyces garyphalus* 129, 210 (1981)
- Biotin**, dependence of the content of apo- and holocarboxylase proteins 122, 121 (1979)
- Biotransformation** of aniline in cyanobacteria 130, 272 (1981)
- Biphenyl**, oxidation by *Oscillatoria* 125, 203 (1980)
- Blastocladiella emersonii**, chitin synthesis 130, 72 (1981)
- Blue-green algae**, nitrogen fixation 121, 155 (1979)
 — —, gas vacuoles in *Microcystis aeruginosa* 122, 57 (1979)
 — —, phototaxis of *Anabaena variabilis* 122, 85 (1979)
 — —, ribonucleotide reductase in *Synechococcus* 123, 15 (1979)
 — —, electron transfer in *Anabaena cylindrica* 123, 37 (1979)
 — —, DNA level in *Anacystis nidulans* 123, 109 (1979)
 — —, pigment mutants 124, 143 (1980)
 — —, C-phycocyanin in *Spirulina platensis* 125, 143 (1980)
 — —, hydrogen inhibition 126, 1 (1980)
 — —, occurrence of coryneform bacteria 127, 163 (1980)
 — —, ammonium inhibition of nitrate utilization 128, 137 (1980)
 — —, enzyme regulation in *Nostoc muscorum* 130, 14 (1981)
 — —, photophobic responses 130, 83 (1981)
- Borrelidin**, resistant mutants of *Saccharomyces cerevisiae* 129, 368 (1981)
- Brevibacterium ammoniagenes**, manganese deficiency 127, 105 (1980)
- Brevibacterium fermentans**, transfer of *Oerskovia* species 127, 179 (1980)
- Brevibacterium linens**, acid hybridisation 129, 85 (1981)
- Bud scars**, location of chitin and glucan in *Saccharomyces cerevisiae* 130, 312 (1981)
- Butyrate**, anaerobic degradation 122, 129 (1979)

C

- C-Phycocyanin** aggregates, analysis of *Rhodella violacea* 125, 43 (1980)
 — in *Spirulina platensis* 125, 143 (1980)
- C-Phycocerythrin** from *Pseudanabaena catenata* 127, 253 (1980)
- Cadmium**, sublethal effects on *Euglena gracilis* 128, 407 (1981)
- Calcium**, association with mycobacteriophage I3. 130, 50 (1981)
- Calcium ions**, requirement in mycobacteriophage I3 124, 249 (1980)
- Caldariella**, taxonomy of *Sulfolobus solfataricus* 125, 259 (1980)
- Campylobacter sputorum**, oxygen consumption 127, 137 (1980)
- Campylobacter sputorum subspecies bubulus**, growth 124, 221 (1980)
- Canavanine**, effect on *Anabaena cylindrica* 127, 67 (1980)
- Candida albicans**, mannan localization 123, 245 (1979)
 — —, chitin synthesis 125, 97 (1980)
 — —, hybridization 129, 1 (1981)
- Candida lipolytica**, metabolism of aromatic hydrocarbons 129, 9 (1981)
- Candida tropicalis**, alcohol and aldehyde dehydrogenases 128, 145 (1980)
- Candida utilis**, growth on ethanol and isopropanol 125, 133 (1980)
 — —, amine-oxidase containing peroxisomes 126, 117 (1980)

- Capnocytophaga**, taxonomy **122**, 9 (1979)
 , ultrastructure **122**, 17 (1979)
 , physiology **122**, 29 (1979)
 , DNA composition **122**, 35 (1979)
 , homology **122**, 35 (1979)
- Capnocytophaga gingivalis**, taxonomy **122**, 9 (1979)
- Capnocytophaga ochracea**, taxonomy **122**, 9 (1979)
- Capnocytophaga sputigena**, taxonomy **122**, 9 (1979)
- Captan**, effect on fungal enzyme **121**, 71 (1979)
- Carbohydrate**, conversion to methane and carbon dioxide by *Acetobacterium woodii* and *Methanosarcina barkeri* **121**, 97 (1979)
- Carbon dioxide**, conversion of carbohydrate by *Acetobacterium woodii* and *Methanosarcina barkeri* **121**, 97 (1979)
 , assimilation by *Desulfovibrio vulgaris* **123**, 301 (1979)
- Carbon dioxide**, acetic acid production by *Clostridium acetium* **128**, 288 (1981)
 , effect on growth of *Clostridium acetium* **128**, 294 (1981)
 , effect on growth of *Acetobacterium woodii* **128**, 294 (1981)
- Carbon limitation**, glucose catabolism by *Thiobacillus* **122**, 307 (1979)
- Carbon monoxide oxidation** in *Clostridium pasteurianum* **122**, 117 (1979)
- Carboxydobacteria**, physiology **127**, 301 (1980)
- Carboxymethyl cellulase**, activity during germination of *Polysphondylium pallidum* **121**, 231 (1979)
- Carboxysomes** in *Thiobacillus neapolitanus* **129**, 361 (1981)
- Carotenoids**, pigments of stigmata of *Euglena gracilis* **121**, 207 (1979)
- Carrageenan** from seaweeds, evaluation **128**, 355 (1981)
- Catabolism** of phthalic acid by *Bacillus* **130**, 101 (1981)
- Catabolite inactivation**, inhibition in *Saccharomyces cerevisiae* **124**, 293 (1980)
- Cell cycle** of *Bacillus subtilis* **123**, 173 (1979)
- Cell envelopes**, composition of *Rhodospirillum tenue* **123**, 287 (1979)
 of *Escherichia coli* **129**, 240 (1981)
- Cell morphogenesis** in *Fuligo septica* **130**, 189 (1981)
- Cell respiration** of *Neurospora crassa* **125**, 53 (1980)
- Cell-surface** of *Acinetobacter calcoaceticus* **130**, 129 (1981)
- Cell wall**, turnover in *Staphylococcus aureus* **121**, 103 (1979)
 of *Halococcus morrhuae* **123**, 209 (1979)
 of *Candida albicans* **123**, 245 (1979)
 , permeability modifiers in *Euglena* **126**, 237 (1980)
 of *Aspergillus niger* **128**, 26 (1980)
 , formation of *Allomyces macrogynus*, ultrastructure **128**, 179 (1980)
- Cell-wall lysis**, calcium ionophore-induced in *Chlamydomonas reinhardtii* **124**, 81 (1980)
- Cellobiose**, growth on *Acetivibrio cellulolyticus* **129**, 265 (1981)
- Cellulomonas cartae**, transfer of *Oerskovia* species **127**, 179 (1980)
- Cellulose** of *Fusarium avenaceum* **129**, 247 (1981)
- Cephalosporin**, regulation of synthesis in *Cephalosporium acremonium* **128**, 78 (1980)
- Cephalosporium acremonium**, regulation of cephalosporin synthesis **128**, 78 (1980)
- Chitin synthase** from *Coprinus cinereus* **121**, 71 (1979)
- Chitin synthesis**, regulation in *Candida albicans* **125**, 97 (1980)
 in *Blastocladiella emersonii* **130**, 72 (1981)
- Chitin-wall**, formation in hyphal tips and anastomoses of *Diplodia natalensis* **130**, 105 (1981)
- Chlamydomonas eugametos**, sex-specific glycoproteins **126**, 77 (1980)
 , sexual binding components **128**, 120 (1980)
- Chlamydomonas reinhardtii**, phototaxis **123**, 93 (1979)
 , calcium ionophore stimulation **124**, 81 (1980)
 , agglutination and glycosyltransferase **127**, 239 (1980)
 , photosynthetic NADH-oxidation **127**, 245 (1980)
 , amide metabolism **128**, 303 (1981)
 , degradation of urea **129**, 261 (1981)
- Chlorella**, metabolic interactions **125**, 291 (1980)
 , taxonomy **126**, 15 (1980)
 , photosynthetic enzymes **129**, 178 (1981)
- Chlorella fusca**, inhibition of nucleic acid synthesis **125**, 79 (1980)
- Chlorella fusca var. vacuolata**, isocitrate lyase mRNA **128**, 98 (1980)
- Chlorella vulgaris**, effect of oxygen **127**, 25 (1980)
- Chloride**, active transport by *Anacystis nidulans* **129**, 325 (1981)
- Chlorobactene**, biosynthesis in *Chlorobium limicola* f. *thiosulfatophilum* **123**, 267 (1979)
- Chlorobium limicola**, autotrophic CO₂ fixation **128**, 56 (1980)
128, 64 (1980)
 – –, coexistence with *Chromatium vinosum* in a sulfide-limited culture **129**, 32 (1981)
 – –, succinyl-coenzyme A **129**, 335 (1981)
 – –, cytochromes **130**, 31 (1981)
- Chlorobium limicola** f. *thiosulfatophilum*, photooxidase activity in the chromatophores **123**, 65 (1979)
 – –, chlorobactene biosynthesis **123**, 267 (1979)
 – –, chlorosomes and cytoplasmic membranes **124**, 21 (1980)
 – –, ATP-linked citrate lyase activity **128**, 239 (1980)
- Chloroflexus aurantiacus**, chlorosomes and cytoplasmic membranes **124**, 21 (1980)
 – –, chlorosomes **127**, 87 (1980)
- Chlorogloeopsis fritschii**, ribulosebiphosphate carboxylase **130**, 213 (1981)
- Chlorosomes** of *Chloroflexus aurantiacus* and *Chlorobium limicola* f. *thiosulfatophilum* **124**, 21 (1980)
 – in *Chloroflexus aurantiacus* **127**, 87 (1980)
- Chromatiaceae**, chemotrophic growth **127**, 125 (1980)
- Chromatium minutissimum**, photooxidase activity in the chromatophores **123**, 65 (1979)
- Chromatium vinosum** sulfite reductase **121**, 29 (1979)
 , metabolic capacities **121**, 161 (1979)
 – –, survival **125**, 115 (1980)
 , malic enzyme **127**, 17 (1980)
 , chemotrophic growth **127**, 125 (1980)
 , coexistence with *Chlorobium limicola* in a sulfide-limited culture **129**, 32 (1981)
 – –, succinyl-coenzyme A **129**, 335 (1981)
 – –, O-acetylserine sulphydralase **130**, 228 (1981)
 – –, s-sulfocysteine synthase **130**, 228 (1981)
 – –, thiosulfate:cytochrome c oxidoreductase **130**, 328 (1981)
- Chromatophores** of phototrophic bacteria **123**, 65 (1979)
 – from *Rhodospirillum rubrum* **125**, 149 (1980)
 –, reaction centers from *Rhodospirillum rubrum* **130**, 125 (1981)
- Chroococciopsis**, effect of water stress **130**, 267 (1981)
- Chroococcus**, effect of water stress **130**, 267 (1981)
- Ciliates**, photophobic response in *Stentor coerulesus* **126**, 181 (1980)
- Citrate**, role on the metabolism of *Claviceps purpurea* **129**, 251 (1981)
- Citrate lyase**, ATP-linked, in *Chlorobium limicola* forma *thiosulfatophilum* **128**, 239 (1980)
- Citric acid**, accumulation in *Aspergillus niger* **123**, 73 (1979)
- Citric acid fermentation**, influence of manganese on *Aspergillus niger* **128**, 26 (1980)
- Claviceps purpurea**, development of sclerotia **125**, 251 (1980)
 – –, role of citrate **129**, 251 (1981)
- Clostridia**, amino acid utilization **123**, 137 (1979)
 –, fermentation of glutamate **127**, 167 (1980)
- Clostridium acetium**, acetic acid formation **128**, 288 (1981)
 –, effect of molecular hydrogen on growth **128**, 294 (1981)
- Clostridium acidurici**, selenium requirement **121**, 255 (1979)
- Clostridium cochlearium**, role of hydrogen sulfide **129**, 49 (1981)
- Clostridium cylindrosporium**, selenium requirement **121**, 255 (1979)
- Clostridium formicoaceticum**, α -isopropylmalate synthase **130**, 385 (1981)
- Clostridium kluyveri**, utilization of crotonate **125**, 159 (1980)
 , hydrogenase and enoate reductase **127**, 279 (1980)
 , acetyl coenzyme A content **130**, 288 (1981)

- Clostridium La 1**, hydrogenase and enoate reductase **127**, 279 (1980)
- Clostridium lentoputrescens**, fermentation of glutamate **127**, 167 (1980)
- Clostridium limosum**, fermentation of glutamate **127**, 167 (1980)
- Clostridium malenominatum**, fermentation of glutamate **127**, 167 (1980)
- Clostridium pasteurianum**, carbon monoxide oxidation **122**, 117 (1979)
- , nickel requirement **122**, 117 (1979)
- , levels of guanosine 5'-diphosphate 3'-diphosphate **128**, 341 (1981)
- , α -isopropylmalate synthase **130**, 385 (1981)
- Clostridium rectum**, lindane degradation **125**, 221 (1980)
- Clostridium sporosphaeroides**, fermentation of glutamate **127**, 167 (1980)
- Clostridium sticklandii**, reduction of D-proline **123**, 203 (1979)
- , pyrimidine degradation **124**, 111 (1980)
- Clostridium tetani**, fermentation of glutamate **127**, 167 (1980)
- Clostridium tetanomorphum**, fermentation of glutamate **127**, 167 (1980)
- Clostridium thermoaceticum**, α -isopropylmalate synthase **130**, 385 (1981)
- CO₂ assimilation**, autotrophic in *Methanobacterium thermoautotrophicum* **130**, 288 (1981)
- CO₂ fixation** in *Rhizobium japonicum* **123**, 1 (1979)
- , autotrophic in *Methanobacterium thermoautotrophicum* **127**, 267 (1980)
- , autotrophic in *Chlorobium limicola* **128**, 56 (1980)
- 128**, 64 (1980)
- , efficiency in *Alcaligenes eutrophus* **128**, 84 (1980)
- Cobalt**, requirement for growth of *Methanobacterium thermoautotrophicum* **123**, 105 (1979)
- Cockroach**, distribution of hindgut of *Eublaberus posticus* **129**, 129 (1981)
- Comamonas compransoris**, physiological characteristics **127**, 301 (1980)
- Concanavalin A**, mannan localization in *Candida albicans* **123**, 245 (1979)
- Coniferyl alcohol**, degradation by *Nocardia* **126**, 141 (1980)
- Continuous culture**, sulfide-limited, coexistence of *Chlorobium limicola* and *Chromatium vinosum* **129**, 32 (1981)
- , growth of *Beggiatoa alba* **129**, 357 (1981)
- Coprinus cinereus**, chitin synthase **121**, 71 (1979)
- Coprinus macrorrhizus**, enzyme production **126**, 201 (1980)
- , basidiospore formation **126**, 207 (1980)
- Corynebacterium manihot**, transfer of *Oerskovia* species **127**, 179 (1980)
- Cosmarium cucumis**, photomovement **129**, 168 (1981)
- Crotonate**, utilization by *Clostridium kluyveri* **125**, 159 (1980)
- Cyanide**, effects in electron transport in *Propionibacterium shermanii* **126**, 167 (1980)
- Cyanidium caldarium**, ammonia assimilation **121**, 117 (1979)
- , glutamine synthetase activity **121**, 117 (1979)
- , nitrate reduction **121**, 117 (1979)
- , glutamine synthetase **129**, 110 (1981)
- , nitrate reductase **129**, 110 (1981)
- , ammonium inhibition **130**, 349 (1981)
- , nitrate utilization **130**, 349 (1981)
- Cyanobacteria**, nitrogen-fixation **121**, 155 (1979)
- , akinetes **122**, 289 (1979)
- , *Bdellovibrio* infection **123**, 101 (1979)
- , DNA level in *Anacystis nidulans* **123**, 109 (1979)
- , structure of phycobilisomes **123**, 113 (1979)
- , hydrogen production **123**, 227 (1979)
- , effect of oxygen on *Oscillatoria limnetica* **123**, 311 (1979)
- , occurrence of fimbriae **124**, 107 (1980)
- , thermophilic, photosynthetic membranes **124**, 155 (1980)
- , photosynthetic and photorespiratory enzymes **124**, 149 (1980)
- , auxotrophic of *Anacystis nidulans* **124**, 177 (1980)
- , light and nitrate limitation in *Oscillatoria agardhii* **125**, 59 (1980)
- , respiratory chain of *Anacystis nidulans* **125**, 123 (1980)
- , biphenyl oxidation by *Oscillatoria* **125**, 203 (1980)
- , hydrogen inhibition **126**, 1 (1980)
- , structure of akinete germination in *Anabaena variabilis* **126**, 257 (1980)
- , effect of canavanine on *Anabaena cylindrica* **127**, 67 (1980)
- , C-phycoerythrin from *Pseudanabaena catenata* **127**, 253 (1980)
- , thioredoxins from *Synechococcus* **127**, 259 (1980)
- , nitrogen limitation in *Aphanocapsa* 6308 **128**, 1 (1980)
- , glycocalyx of *Agmenellum quadruplicatum* **128**, 8 (1980)
- , phycobiliproteins of *Azolla caroliniana* **128**, 41 (1980)
- , antigenicity between *Anabaena azollae* and *Azolla caroliniana* **128**, 126 (1980)
- , ammonium inhibition of nitrate utilization **128**, 137 (1980)
- , endonucleases **128**, 242 (1980)
- , role of cytochrome *c*-553 and plastocyanin in *Anabaena variabilis* **128**, 336 (1981)
- , marine, photosynthetic characteristics **129**, 42 (1981)
- , respiratory oscillation induction in *Anacystis nidulans* **129**, 123 (1981)
- , structure and phycobilisomes of *Gloeobacter violaceus* **129**, 181 (1981)
- , biliproteins of *Gloeobacter violaceus* **129**, 190 (1981)
- , phycoerythrocyanin of *Mastigocladus laminosus* **129**, 268 (1981)
- , entrapment and lysis of *Phormidium luridum* **129**, 285 (1981)
- , filamentous, microplasmodesmata **129**, 295 (1981)
- , chloride transport by *Anacystis nidulans* **129**, 325 (1981)
- , accumulation of guanosine tetraphosphate **129**, 341 (1981)
- , biliprotein complexes **129**, 374 (1981)
- , enzyme regulation **130**, 14 (1981)
- , phycobilisomes **130**, 23 (1981)
- , acetate movement across the cytoplasmic membrane **130**, 175 (1981)
- , nitrogen limitation of *Agmenellum quadruplicatum* **130**, 204 (1981)
- , ribulosebiphosphate carboxylase from *Chlorogloeopsis fritschii* **130**, 213 (1981)
- , cryptoendolithic, effect of water stress **130**, 267 (1981)
- , biotransformation of aniline **130**, 272 (1981)
- , ribulosebiphosphate carboxylase of *Synechococcus* **130**, 344 (1981)
- Cyanophage SM-2**, light-dark regimes **129**, 165 (1981)
- Cyclic adenosine 3',5'-monophosphate**, sporangiospore germination in *Mucor* **126**, 133 (1980)
- Cyclic AMP**, effect in *Streptomyces hygroscopicus* **121**, 91 (1979)
- in *Leptosphaeria michotii* **128**, 325 (1981)
- Cyclic AMP levels** in *Mucor racemosus* **129**, 353 (1981)
- Cyclic redox chain**, electrogenic of *Rhodospirillum rubrum* **125**, 271 (1980)
- ω -**Cyclohexane fatty acids** in *Bacillus acidocaldarius* and *Bacillus coagulans* **129**, 53 (1981)
- Cycloheximide**, action in *Physarum polycephalum* **126**, 109 (1980)
- Cysteine uptake** by dinoflagellates **128**, 311 (1981)
- Cytochromes** in *Paracoccus denitrificans* **126**, 149 (1980)
- of *Chlorobium limicola* **130**, 31 (1981)
- Cytochrome c₃**, role in the reduction of colloidal sulfur **121**, 261 (1979)
- , role in energy production system of *Desulfovibrio vulgaris* **125**, 35 (1980)
- Cytochrome c-553**, role in *Anabaena variabilis* **128**, 336 (1981)
- Cytochrome c oxidase** in *Rhodospirillum rubrum* and *Rhodospirillum tenue* **124**, 97 (1980)
- Cytochrome patterns** of *Oerskovia turbata* and *O. xanthineolytica* **127**, 173 (1980)

D

- D-Cycloserine**, biosynthesis in *Streptomyces garyphalus* **129**, 210 (1981)
129, 213 (1981)
- D-Phenylglycyl-glycine** in *Escherichia coli* **127**, 203 (1980)
- D-proline**, reduction in *Clostridium sticklandii* **123**, 203 (1979)
- D-Ribulose 1,5-bisphosphate carboxylase** in *Nitrosomonas* **128**, 275 (1981)
- Dead Sea**, Bacteriorhodopsin in halobacteria **130**, 185 (1981)
- Debaryomyces hansenii**, intracellular amino acid pool **124**, 123 (1980)
 -, polyhydric alcohol production **124**, 123 (1980)
- Degradation**, microbial of dehydrodiconiferyl alcohol, **121**, 23 (1979)
 -, anaerobic of butyrate **122**, 129 (1979)
- Dehalogenation** of dichloromethane by *Hyphomicrobium* **130**, 366 (1981)
- Dehydroconiferil alcohol**, microbial degradation **121**, 23 (1979)
- Dehydrodivanillin**, catabolism of the lignin substructure by *Streptomyces viridosporus* **129**, 204 (1981)
- Dehydrogenase**, alcohol and aldehyde in *Candida tropicalis* **128**, 145 (1980)
- Density**, changes in spores of *Phycomyces* **124**, 289 (1980)
- 6-Deoxyglucose**, transport system in *Kluyveromyces lactis* **130**, 87 (1981)
- Deoxyribonucleic acid**, base composition in *Prochloron* **129**, 314 (1981)
- Desmids**, photomovement in *Cosmarium cucumis* **129**, 168 (1981)
- Desulfobacter**, oxidation of short-chain fatty acids **128**, 330 (1981)
- Desulfobacter postgatei** gen.nov. sp.nov. **129**, 395 (1981)
- Desulfobulbus**, oxidation of short-chain fatty acids **128**, 300 (1981)
- Desulfotomaculum acetoxidans**, sporulation **129**, 401 (1981)
- Desulfovibrio desulfuricans**, reduction of colloidal sulfur **121**, 261 (1979)
 -, -, oxidation of short-chain fatty acids **128**, 330 (1981)
- Desulfovibrio vulgaris**, reduction of colloidal sulfur **121**, 261 (1979)
 -, acetate and carbon dioxide assimilation **123**, 301 (1979)
 -, -, hydrogen burst **125**, 35 (1980)
 -, -, vectorial electron transport **125**, 167 (1980)
- Dialkyl ethers**, metabolism by *Acinetobacter* **126**, 285 (1980)
- Dialysis microchamber**, gliding motility of *Flexibacter* **124**, 169 (1980)
- Diatom mineralization** of silicic acid **123**, 157 (1979)
- Dictyostelium discoideum**, light inhibition of aggregation **123**, 281 (1979)
 -, ionophore and triphenylmethyl phosphonium-ion effects **126**, 97 (1980)
- Didinium iridis**, ultrastructure **128**, 384 (1981)
- Dikaryotization** in *Schizophyllum commune* **128**, 162 (1980)
128, 172 (1980)
- Dikinase**, pyruvate, orthophosphate from *Acetobacter aceti* **122**, 103 (1979)
- 3,9-Dimethoxypterocarpan**, degradation by *Fusarium* fungi **130**, 381 (1981)
- Dimilin**, effect on fungal enzyme **121**, 71 (1979)
- Dimorphism** of *Mucor racemosus* **129**, 353 (1981)
- Dinitrogen fixation** by *Rhodopseudomonas capsulata* **127**, 77 (1980)
- 2,4-Dinitrophenol**, inhibition of nucleic acid synthesis in *Chlorella fusca* **125**, 79 (1980)
- Dinoflagellates**, phosphate uptake **128**, 307 (1981)
 -, cysteine uptake **128**, 311 (1981)
 -, methionine uptake **128**, 311 (1981)
 -, sulphate uptake **128**, 311 (1981)
 -, taurine uptake **128**, 311 (1981)
- Diplodia natalensis**, chitin-wall formation **130**, 105 (1981)
- Disaccharides**, uptake and hydrolysis by *Rhizobium* **129**, 233 (1981)
- DNA-DNA-hybridization** in Staphylococci **122**, 93 (1979)
 -, of *Rhodopseudomonas* strains **128**, 271 (1981)

- DNA synthesis** during cell cycle of *Anacystis nidulans* **123**, 109 (1979)
 -, -, in *Brevibacterium ammoniagenes* **127**, 105 (1980)
 -, -, in *Neurospora crassa* **128**, 113 (1980)
- Dolichyl pyrophosphate oligosaccharides** as intermediates in the synthesis of mannoproteins **127**, 231 (1980)
- Drugs**, microtubule-disrupting in *Physarum polycephalum* **128**, 34 (1980)
- Dunaliella tertiolecta**, salt relations **129**, 154 (1981)

E

- Ectothiorhodospira** sp.nov. **130**, 238 (1981)
- Ectothiorhodospira shaposhnikovii**, photooxidase activity in the chromatophores **123**, 65 (1979)
- Electron microscopy**, cell cycle of *Bacillus subtilis* **123**, 173 (1979)
 -, -, of *Leptospira* **130**, 339 (1981)
- Electron transfer** in *Anabaena cylindrica* **123**, 37 (1979)
- Electron transport** in *Anacystis nidulans* **125**, 123 (1980)
 -, -, vectorial in *Desulfovibrio vulgaris* **125**, 167 (1980)
 -, -, in *Propionibacterium shermanii* **126**, 167 (1980)
 -, -, photosynthetic in *Euglena* **126**, 237 (1980)
 -, -, in *Paracoccus denitrificans* **127**, 1 (1980)
 -, -, light and oxygen-dependent in *Rhodopseudomonas capsulata* **129**, 94 (1981)
- Emulsan**, production relation to phage resistance of *Acinetobacter calcoaceticus* **130**, 129 (1981)
- Encapsulation** of the *Ustilago maydis* virus dsRNA **128**, 45 (1980)
- Endonuclease**, synthesis in *Physarum polycephalum* **122**, 195 (1979)
 -, of cyanobacteria **128**, 242 (1980)
- Endosymbionts** of *Rhizobium leguminosarum*, viability **129**, 349 (1981)
- Energetics** of growth of *Microbacterium thermosphaerum* **128**, 152 (1980)
- Energy generation** by *Campylobacter sputorum* subspecies *bubulus* **124**, 221 (1980)
- Energy limitation**, growth yields in *Thiobacillus* **122**, 183 (1979)
- Energy metabolism** in *Rhodospirillum rubrum* and *Rhodopseudomonas sphaeroides* **126**, 195 (1980)
 -, of *Nitrobacter winogradskyi* **130**, 250 (1981)
- Energy production** of *Desulfovibrio vulgaris* **125**, 35 (1980)
- Energy requirement** in *Klebsiella aerogenes* **123**, 183 (1979)
- Energy starvation** of *Bacillus stearothermophilus* **129**, 29 (1981)
- Energy transduction** in *Paracoccus denitrificans* **127**, 1 (1980)
- Enoate**, reductase in *Clostridium* La 1 and *Clostridium kluyveri* **127**, 279 (1980)
- Enterobacter aerogenes**, mercury resistance **130**, 93 (1981)
- Entrapment** of *Phormidium luridum* by *Myxococcus xanthus* **129**, 285 (1981)
- Enzymes**, digestive, compartments in yeasts **123**, 23 (1979)
 -, photosynthetic and photorespiratory in *Anabaena cylindrica* **124**, 149 (1980)
 -, of the ammonia assimilation in *Pseudomonas aeruginosa* **124**, 197 (1980)
 -, sequential production in *Coprinus macrorrhizus* **126**, 201 (1980)
 -, xylan degrading of *Fusarium avenaceum* **129**, 247 (1981)
 -, phenol-metabolizing, induction in *Trichosporon cutaneum* **130**, 54 (1981)
 -, cellulolytic, production in a continuous-flow column by *Trichoderma reesei* **130**, 372 (1981)
- Enzyme derepression** in *Euglena gracilis* **124**, 33 (1980)
- Enzyme properties** of *Bacillus caldolyticus* **130**, 159 (1981)
- Enzyme regulation** in Cyanobacteria **130**, 14 (1981)
- Enzyme synthesis**, regulation in methanol-utilizing yeasts **124**, 115 (1980)
- Enzyme-linked immunosorbent assay**, serological diversity in *Rhizobium japonicum* **130**, 281 (1981)
- Erwinia herbicola*, *his* and *nif* genes **127**, 115 (1980)

- Escherichia coli**, guanosine 3',5'-bis(diphosphate) inhibition **124**, 229 (1980)
- , phage T6 receptor and nucleoside uptake **124**, 233 (1980)
 - , glucose uptake **125**, 175 (1980)
 - , bacteriophage K7 **126**, 271 (1980)
 - , outer membrane **127**, 81 (1980)
 - , utilization of D-phenylglycyl-glycine **127**, 203 (1980)
 - , phosphoglucose isomerase **127**, 289 (1980)
 - , effects of the antibiotic streptozotocin **128**, 196 (1980)
 - , translation of spore polypeptides **129**, 160 (1981)
 - , maltose-binding protein **129**, 240 (1981)
 - , peptidoglycan synthesis **130**, 90 (1981)
 - , determination of adenosine pentaphosphate by radioimmunoassay **130**, 134 (1981)
 - , murein biosynthesis **130**, 301 (1981)
 - , transfer of the Nif plasmid from *Lignobacter* **130**, 322 (1981)
- Escherichia coli K-12**, iron uptake **128**, 360 (1981)
- , **130**, 353 (1981)
- Ethanol**, inhibition by *Saccharomyces cerevisiae* **122**, 49 (1979)
- , growth of *Candida utilis* **125**, 133 (1980)
 - , phospholipid changes in *Microsporium* **130**, 248 (1981)
- Ethanol producer** *Thermoanaerobacter ethanolicus* gen.nov.spec.nov. **128**, 343 (1981)
- Ether**, permeabilized cells of *Escherichia coli* **130**, 301 (1981)
- β -Ether cleavage** by *Phanerochaete chrysosporium* **129**, 141 (1981)
- Eublaberus posticus**, distribution **129**, 129 (1981)
- Euglena**, cell wall permeability modifiers **126**, 237 (1980)
- , photosynthetic electron transport **126**, 237 (1980)
- Euglena gracilis**, stigmata carotenoids **121**, 207 (1979)
- , malate synthase messenger RNA **124**, 33 (1980)
 - , sublethal effects of heavy metals **128**, 407 (1981)
 - , water-soluble vitamins **129**, 310 (1981)
 - , phototaxis **130**, 78 (1981)
- Eutrophication** in *Microcystis aeruginosa* **122**, 57 (1979)
- Exoenzymes**, regulation of formation in *Serratia marcescens* **121**, 181 (1979)
- Exopolysaccharides**, rhizobial, binding of legume lectins **121**, 83 (1979)
- Exoprotease**, regulation of production in *Vibrio alginolyticus* **130**, 276 (1981)

F

- Factor F₄₃₀**, content in *Methanobacterium thermoautotrophicum* **127**, 273 (1980)
- Fatty acid** of *Vibrio* **121**, 121 (1979)
- , degradation by an anaerobic bacterium **122**, 129 (1979)
 - , composition of *Pseudomonas* **126**, 51 (1980)
 - , decomposing sulfate-reducing bacteria **129**, 395 (1981)
- Fermentation** of glutamate by clostridia **127**, 167 (1980)
- Ferredoxin/thioredoxin system** in *Nostoc muscorum* **130**, 14 (1981)
- Ferulic acid**, metabolism by *Sporotrichum pulverulentum* **128**, 349 (1981)
- Fimbriae**, occurrence on a cyanobacterium **124**, 107 (1980)
- Flagella** of *Chlamydomonas eugametos*, glycoproteins **126**, 77 (1980)
- , gametic from *Chlamydomonas reinhardtii* **127**, 239 (1980)
- Flagellates**, phototaxis **130**, 78 (1981)
- Flavobacterium**, flexirubin-type pigments **126**, 291 (1980)
- Flexibacter**, gliding motility **124**, 169 (1980)
- Flexibility**, metabolic of *Thiobacillus* **129**, 23 (1981)
- Fluorescence**, properties in *Oscillatoria chalybea* **127**, 33 (1980)
- Fomes annosus**, laccase **125**, 233 (1980)
- Formate**, chemotrophic, utilization by *Rhodopseudomonas* **122**, 177 (1979)
- , effects in *Pseudomonas denitrificans* **124**, 191 (1980)
 - , effect on *Beneckea natriegens* **129**, 119 (1981)
- Formate dehydrogenase** in *Paracoccus denitrificans* **126**, 155 (1980)
- Formate oxidation** in *Campylobacter sputorum* **127**, 137 (1980)
- Fructose**, consumption in *Saccharomyces cerevisiae* **121**, 17 (1979)
- Fructose-1,6-bisphosphatase**, regulation in *Saccharomyces cerevisiae* **129**, 216 (1981)
- Fruit body formation** in *Phanerochaete chrysosporium* **121**, 37 (1979)
- Fruiting**, monokaryotic in *Coprinus macrorhizus* **126**, 207 (1980)
- Fuligo septica**, spore germination **130**, 189 (1981)
- Fumarate reduction** in *Vibrio succinogenes* **129**, 100 (1981)
- Fungi**, hydroxy acids **121**, 43 (1979)
- , surface iron **121**, 43 (1979)
 - , thermophilic and mesophilic, trehalase **122**, 275 (1979)
 - , white-rot, vanillic acid metabolism **125**, 189 (1980)
 - , white-rot, laccase in *Fomes annosus* **125**, 233 (1980)
 - , cyclic adenosine 3',5'-monophosphate and sporangiospore germination from *Mucor* **126**, 133 (1980)
 - , marine, endogenous respiration **126**, 161 (1980)
 - , mannitol cycle **128**, 253 (1980)
 - , white-rot, aromatic metabolism of *Phanerochaete chrysosporium* **128**, 416 (1981)
- Fungus**, white-rot, ferulic acid metabolism **128**, 349 (1981)
- Fusarium anguoides**, degradation of 3,9-dimethoxypterocarpan **130**, 381 (1981)
- Fusarium avenaceum**, cellulose and xylan degrading enzymes **129**, 247 (1981)
- , degradation of 3,9-dimethoxypterocarpan **130**, 381 (1981)
- Fusarium graminearum**, degradation of 3,9-dimethoxypterocarpan **130**, 381 (1981)
- Fusarium solani**, biodegradation of dehydrodiconiferyl alcohol **121**, 23 (1979)
- , degradation of guaiacylglycerol- β -coniferyl ether **126**, 127 (1980)
 - , lignin biodegradation **129**, 305 (1981)
 - , **130**, 198 (1981)
- Fusarium sporotrichoides**, degradation of 3,9-dimethoxypterocarpan **130**, 381 (1981)

G

- Galactogen metabolism** of *Arthrobacter* **123**, 87 (1980)
- β -Galactosidase**, inhibition in *Streptomyces violaceus* **125**, 111 (1980)
- Gamma particles** during encystment of *Allomyces macrogynus* **128**, 179 (1980)
- Gas vacuoles** in *Microcystis aeruginosa* **122**, 57 (1979)
- Gene transfer agent** in *Rhodopseudomonas capsulata* **121**, 61 (1979)
- Genome size** of *Prochloron* **129**, 314 (1981)
- Geotrichum candidum**, polyol accumulation **126**, 57 (1980)
- Germination** of microcysts in *Polysphondylium pallidum* **121**, 231 (1979)
- of *Pilolobus longipes* spores **126**, 43 (1980)
 - of akinetes in *Anabaena variabilis* **126**, 257 (1980)
 - of sporangiospores from *Mucor* **127**, 133 (1980)
 - of spore in *Fuligo septica* **130**, 189 (1981)
- Germination process** of *Anabaena akinetes* **122**, 289 (1979)
- Germ-tube formation** in *Candida albicans* **125**, 97 (1980)
- Gibberella saubinetii**, degradation of 3,9-dimethoxypterocarpan **130**, 381 (1981)
- Gliding bacteria** *Capnocytophaga* **122**, 9 (1979)
- 122**, 17 (1979)
 - 122**, 29 (1979)
- Gliding motility** of *Flexibacter* **124**, 169 (1980)
- Gloeobacter violaceus**, phycobilisomes **129**, 181 (1981)
- , structure **129**, 181 (1981)
 - , biliproteins **129**, 190 (1981)
- Gloeocapsa**, ultrastructure **130**, 165 (1981)
- Glucan-chitin complex** in *Saccharomyces cerevisiae* **130**, 312 (1981)

- 1,6- β -Glucanase** in *Penicillium italicum* **121**, 265 (1979)
- Glycine max**, nitrite inhibition of nitrogenase **124**, 49 (1980)
- Glucans** from *Aeromonas hydrophila* **125**, 83 (1980)
- Gluconobacter oxydans**, growth analysis **121**, 283 (1979)
121, 291 (1979)
- Glucose**, consumption in *Saccharomyces cerevisiae* **121**, 17 (1979)
-, catabolism in *Thiobacillus novellus* **122**, 257 (1979)
-, catabolism by *Thiobacillus* **122**, 307 (1979)
-, inhibition in *Streptomyces violaceus* **125**, 111 (1980)
-, uptake in *Escherichia coli* and *Klebsiella aerogenes* **125**, 175 (1980)
-, uptake by *Rhizobium leguminosarum* **128**, 72 (1980)
-, regulation of cephalosporin synthesis in *Cephalosporium acremonium* **128**, 78 (1980)
-, catabolism in *Thiobacillus A2* **128**, 91 (1980)
-, effect on *Beneckea natriegens* **129**, 119 (1981)
-, transport in *Kluyveromyces lactis* **130**, 87 (1981)
-, starvation of *Trichoderma aureoviride* **130**, 180 (1981)
-, utilization by *Pseudomonas putida* **130**, 243 (1981)
- β -Glucosidase**, activity during germination of *Polysphondylium pallidum* **121**, 231 (1979)
- Glutamate**, fermentation by clostridia **127**, 167 (1980)
- Glutamate dehydrogenase**, regulation in *Pseudomonas aeruginosa* **128**, 398 (1981)
- Glutamine synthetase**, in *Cyanidium caldarium* **121**, 117 (1979)
- -, involvement in regulation of nitrogenase activity in *Rhodopseudomonas capsulata* **122**, 213 (1979)
- - in *Azotobacter vinelandii* **128**, 412 (1981)
- - in *Cyanidium caldarium* **129**, 110 (1981)
- -, ammonia switch-off in *Rhodopseudomonas palustris* **130**, 138 (1981)
- Glyceraldehyde 3-phosphate dehydrogenase** of *Scenedesmus obliquus* **122**, 313 (1979)
- Glycerol content** in *Dunaliella tertiolecta* **129**, 154 (1981)
- Glycolyx** of *Agmenellum quadruplicatum* **128**, 8 (1980)
- Glycogen metabolism** in *Saccharomyces carlsbergensis* **123**, 143 (1979)
- Glycolate**, excretion by *Thiobacillus neapolitanus* **122**, 189 (1979)
-, excretion by *Rhodospirillum rubrum* **129**, 317 (1981)
- Glycoproteins**, sex-specific, in *Chlamydomonas eugametos* **126**, 77 (1980)
- Glycosyltransferase**, activity of gametic flagella from *Chlamydomonas reinhardtii* **127**, 239 (1980)
- Glyoxylate metabolism** in *Bacillus fastidiosus* **121**, 129 (1979)
- Green algae**, nitrogen fixation **124**, 161 (1980)
- Growth** of *Gluconobacter oxydans* **121**, 283 (1979)
121, 291 (1979)
of *Saccharomyces cerevisiae*, ethanol inhibition **122**, 49 (1979)
- of *Arthrobacter crystallopoietes* **122**, 61 (1979)
122, 69 (1979)
-, chemoautotrophic of *Rhodopseudomonas* **122**, 177 (1979)
- of *Methanobacterium thermoautotrophicum* **123**, 105 (1979)
-, chemolithotrophic of *Desulfovibrio vulgaris* **123**, 301 (1979)
of *Oscillatoria agardhii* **123**, 315 (1979)
-, factor requirement of *Thiobacillus novellus* **124**, 91 (1980)
-, chemolithotrophic in hydrogen-oxidizing bacteria **124**, 131 (1980)
-, pigment mutants of *Anacystis nidulans* **124**, 143 (1980)
of *Campylobacter sputorum* subspecies *bubulus* **124**, 221 (1980)
-, diauxic of *Pseudomonas oxalaticus* **124**, 261 (1980)
-, temperature effect upon heat sensitivity in *Saccharomyces cerevisiae* **124**, 285 (1980)
-, light-limited of *Scenedesmus protuberans* **125**, 9 (1980)
of phototrophic bacteria **125**, 19 (1980)
-, diazotrophic of *Rhodopseudomonas acidophila* and *Rhodopseudomonas capsulata* **125**, 73 (1980)
of *Candida utilis* **125**, 133 (1980)
of *Desulfovibrio vulgaris* **125**, 167 (1980)
-, maximum rate of *Paracoccus denitrificans* **125**, 239 (1980)
-, mixotrophic of *Thiobacillus* **126**, 33 (1980)
-, temperature of *Bacillus caldovenax* **126**, 103 (1980)
- of *Rhodospirillum rubrum* and *Rhodopseudomonas sphaeroides* at different temperatures **126**, 187 (1980)
-, hyphal of *Aspergillus flavus* **126**, 245 (1980)
-, autotrophic of *Paracoccus denitrificans* **127**, 1 (1980)
- of *Chlorella vulgaris*, effect of oxygen **127**, 25 (1980)
- of *Rhodopseudomonas capsulata* **127**, 77 (1980)
-, unbalanced in *Brevibacterium ammoniagenes* **127**, 105 (1980)
-, chemotrophic of Chromatiaceae **127**, 125 (1980)
- of *Microbacterium thermosphactum* **128**, 152 (1980)
- of *Acetobacterium woodii* **128**, 294 (1981)
- of *Clostridium acetium* **128**, 294 (1981)
-, mixotrophic and heterotrophic of *Beggiatoa alba* **129**, 357 (1981)
-, iron limited of *Escherichia coli* K-12 **130**, 353 (1981)
- of *Hansenula polymorpha* **130**, 362 (1981)
- of *Trichoderma reesei* **130**, 372 (1981)
- Growth cycle** of *Bacillus subtilis* **123**, 9 (1979)
- Growth parameters** of *Methanobacterium thermoautotrophicum* **127**, 59 (1980)
- Growth yields** of *Paracoccus denitrificans* **121**, 213 (1979)
- - of *Acetobacterium woodii* **130**, 255 (1981)
- Guaiacylglycerol- β -coniferyl ether**, fungal degradation **126**, 127 (1980)
- Guanosine 3',5'-bis(diphosphate)**, inhibition by antibiotics **124**, 229 (1980)
- Guanosine 5'-diphosphate 3'-diphosphate**, levels in N_2 fixing bacteria **128**, 341 (1981)
- Guanosine tetraphosphate**, accumulation in *Anacystis nidulans* **129**, 341 (1981)
-, determination in microorganisms **130**, 134 (1981)
- Gymnodinium microadriaticum**, phosphate uptake **128**, 307 (1981)
- -, sulphate uptake **128**, 311 (1981)
- -, taurine uptake **128**, 311 (1981)
- -, cysteine uptake **128**, 311 (1981)
- -, methionine uptake **128**, 311 (1981)
- ## H
- H_2 production** by *Ruminococcus albus*, inhibition by molybdate and sulfide **124**, 137 (1980)
- - of *Rhodospirillum rubrum* **125**, 245 (1980)
- H_2 -recycling system** in *Rhizobium* **129**, 380 (1981)
- H_2 -uptake hydrogenase** in *Rhizobium japonicum* **128**, 275 (1981)
- Halobacterium**, bacteriorhodopsin **130**, 185 (1981)
- Halococcus morrhuae**, cell wall constituent **123**, 209 (1979)
- Halotolerance** of *Debaryomyces hansenii* **124**, 123 (1980)
- Hansenula polymorpha**, regulation of enzyme synthesis **124**, 115 (1980)
-, amine-oxidase containing peroxisomes **126**, 117 (1980)
-, regulation of alcohol oxidase **127**, 119 (1980)
-, biogenesis **129**, 35 (1981)
-, utilization rate of methanol **130**, 362 (1981)
- Hansenula wingei**, sex pheromones **129**, 281 (1981)
- Heat sensitivity** of *Saccharomyces cerevisiae* **124**, 285 (1980)
- Helix pomatia**, isolation of a galactogen utilizing strain of *Arthrobacter* **124**, 87 (1980)
- Heterogeneity** of the coupling factor from *Rhodospirillum rubrum* **125**, 149 (1980)
- Hindgut**, distribution of *Eublaberis posticus* **129**, 129 (1981)
- his Genes** in *Serratia marcescens*, *Erwinia herbicola* and *Proteus mirabilis* **127**, 105 (1980)
- Histidase**, regulation in *Pseudomonas aeruginosa* **128**, 398 (1981)
- Homology** of *Capnocytophaga* **122**, 35 (1979)
- Homoserine pool** in mutants of *Saccharomyces cerevisiae* **129**, 368 (1981)
- Hopanoids**, occurrence in thermo-acidophilic bacilli **129**, 53 (1981)

Hotspring, nitrogen fixation with a green alga **124**, 161 (1980)

Hybridization of *Candida albicans* **129**, 1 (1981)

Hydrogen uptake in soyben nodule bacteroids **121**, 199 (1979)

Hydrogen, molecular, electron transfer in *Anabaena cylindrica* **123**, 37 (1979)

–, production by cyanobacteria **123**, 227 (1979)

–, burst from *Desulfovibrio vulgaris* **125**, 35 (1980)

– plus sulfate, growth of *Desulfovibrio vulgaris* **125**, 167 (1980)

– inhibition in *Anabaena* **126**, 1 (1980)

–, molecular, acetic acid production by *Clostridium acetivum* **128**, 288 (1981)

–, molecular, effect on growth of *Clostridium acetivum* **128**, 294 (1981)

–, molecular, effect on growth of *Acetobacterium woodii* **128**, 294 (1981)

–, molecular, utilization by *Alcaligenes eutrophus* **129**, 384 (1981)

Hydrogen bacteria, nitrogen fixation by *Alcaligenes latus* **129**, 254 (1981)

Hydrogen sulfide, role in *Clostridium cochlearium* **129**, 49 (1981)

Hydrogenase, uptake in *Rhizobium japonicum* **123**, 1 (1979)

– in *Anacystis nidulans* **123**, 81 (1979)

–, role in energy production system of *Desulfovibrio vulgaris* **125**, 25 (1980)

–, activities of *Azospirillum brasilense* **125**, 67 (1980)

– in *Clostridium* La 1 and *Clostridium kluyveri* **127**, 279 (1980)

–, soluble of *Alcaligenes eutrophus* **129**, 150 (1981)

Hydrophobicity of bacteria **128**, 267 (1981)

Hydroxy acids in fungi **121**, 43 (1979)

4-Hydroxybenzoate, utilization by *Pseudomonas acidovorans* **126**, 65 (1980)

Hydroxyurea in *Streptomyces garyphalus* **129**, 210 (1981)

Hyphae, multikaryotic, in *Schizophyllum commune* **128**, 172 (1980)

Hyphomicrobium, dehalogenation of dichloromethane **130**, 366 (1981)

Hypnophillin, isolation from *Pleurotellus hypnophilus* **130**, 223 (1981)

IJ

Imacidin from *Streptomyces olivaceus* **122**, 219 (1979)

Immunoferritin labeling of *Bacillus licheniformis* and *Klebsiella aerogenes* **127**, 39 (1980)

Incompatibility, somatic in *Physarum polycephalum* **122**, 1 (1979)

– in *Physarum polycephalum* **129**, 257 (1981)

Interactions, metabolic, between *Paramecium bursaria* and *Chlorella* **125**, 291 (1980)

Intestine of swine, *Treponema* sp. nov. **122**, 231 (1979)

Ionophores, effects in *Dictyostelium discoideum* **126**, 97 (1980)

Ions, metal, effect on alkaline phosphatase of *Rhizobium leguminosarum* **126**, 251 (1980)

Iron, surface polymers in fungi **121**, 43 (1979)

–, activation of *Pilobolus longipes* spores **126**, 43 (1980)

Iron deposition in *Pedomicrobium*-like budding bacteria **123**, 213 (1979)

Iron uptake of *Escherichia coli* K-12 **128**, 360 (1981)

130, 353 (1981)

Isocitrate dehydrogenase from *Anacystis nidulans* **129**, 331 (1981)

Isocitrate lyase mRNA from *Chlorella fusca* var. *vacuolata* **128**, 98 (1980)

Isolation of Plasmids from *Rhizobium meliloti* **121**, 1 (1979)

Isopropanol, growth of *Candida utilis* **125**, 133 (1980)

α -**Isopropylmalate synthase** in anaerobic bacteria **130**, 385 (1981)

Isotope, assays of Coenzyme A of *Clostridium kluyveri* **130**, 288 (1981)

Jaspis stellifera, *Bdellovibrio* infection **123**, 101 (1979)

K

Kinetics of metabolite production by *Klebsiella aerogenes* **123**, 189 (1979)

– of microcyst germination in *Didymium iridis* **128**, 384 (1981)

Kinetic studies of nitrogenase and hydrogenase activities of *Azospirillum brasilense* **125**, 67 (1980)

Kitazin P, effect on fungal enzyme **121**, 71 (1979)

Klebsiella aerogenes, transmembrane K⁺ gradient **123**, 183 (1979)

–, kinetics of metabolite production **123**, 189 (1979)

–, glucose uptake **125**, 175 (1980)

–, immunoferritin labeling **127**, 39 (1980)

Klebsiella pneumoniae, nitrogen fixation **123**, 259 (1979)

–, temperature control **123**, 259 (1979)

–, *his* and *nif* genes **127**, 105 (1980)

–, levels of guanosine 5'-diphosphate 3'-diphosphate **128**, 341 (1981)

– –, nitrogenase messenger RNA synthesis **130**, 38 (1981)

Kloeckera, regulation of enzyme synthesis **124**, 115 (1980)

Kluyveromyces fragilis, spore wall structure **121**, 53 (1979)

Kluyveromyces lactis, inducible glucose transport **130**, 87 (1981)

Kluyveromyces thermotolerans, spore wall structure **121**, 53 (1979)

Kluyveromyces waltii, spore wall structure **121**, 53 (1979)

L

Laccase, function in *Fomes annosus* **125**, 233 (1980)

–, activity in *Podospira anserina* **130**, 121 (1981)

β -**Lactamase activity** in *Myxococcus xanthus* **130**, 150 (1981)

Lactate fermentation in *Oscillatoria limnetica* **122**, 77 (1979)

Lactobacillus brevis, structural organization of Tibi grains **128**, 157 (1980)

Lactobacillus plantarum, oxygen utilization **125**, 209 (1980)

125, 215 (1980)

– –, superoxide dismutase **125**, 215 (1980)

Lakes, growth of phototrophic bacteria **125**, 19 (1980)

Leaf cavity, occurrence of coryneform bacteria **127**, 163 (1980)

Legume lectins, binding to rhizobial cell surface antigens **121**, 83 (1979)

Leptosphaeria michotii, cyclic AMP level **128**, 325 (1981)

Leptospira, morphology **130**, 339 (1981)

Leucine biosynthesis in anaerobic bacteria **130**, 385 (1981)

Lichen, symbiosis, cyanobacterial fimbriae **124**, 107 (1980)

Light, inhibition of aggregation in *Dictyostelium discoideum* **123**, 281 (1979)

–, far-red, growth of pigment mutants of *Anacystis nidulans* **124**, 143 (1980)

–, quality on the growth of phototrophic bacteria **125**, 19 (1980)

–, effect on *Oscillatoria agardhii* **125**, 59 (1980)

–, low intensities, survival of *Chromatium vinosum* **125**, 115 (1980)

Light-dark-cycle in continuous culture of *Oscillatoria agardhii* **123**, 315 (1979)

Light shielding of gas vacuoles in *Microcystis aeruginosa* **122**, 57 (1979)

Lignin biodegradation by *Phanerochaete chrysosporium* **123**, 307 (1979)

128, 416 (1981)

–, biodegradation by *Fusarium solani* **129**, 305 (1981)

130, 198 (1981)

Lignin degradation by *Streptomyces viridosporus* **129**, 204 (1981)

– – in *Phanerochaete chrysosporium* **129**, 321 (1981)

Lignin model compounds, metabolism by *Phanerochaete chrysosporium* **125**, 227 (1980)

Lignin substructure, catabolism by *Streptomyces viridosporus* **129**, 204 (1981)

- Ligninolytic activity**, onset in *Phanerochaete chrysosporium* 130, 59 (1981)
 -, suppression in *Phanerochaete chrysosporium* 130, 66 (1981)
- Lignobacter**, nif plasmid 130, 322 (1981)
- Lindane degradation** of *Clostridium rectum* 125, 221 (1980)
- Lipopolysaccharides**, rhizobial, binding of legume lectins 121, 83 (1979)
 -, EDTA treatment of *Salmonella typhimurium* cells 124, 69 (1980)
 of *Rhizobium* 125, 1 (1980)
 - in *Synechococcus* 127, 209 (1980)
 - in *Synechocystis* 127, 217 (1980)
 of *Moraxella quadruplicata* 128, 12 (1980)
- Lipoprotein**, covalent in *Proteus mirabilis* 121, 177 (1979)
 - in the outer membrane of *Proteus mirabilis* 128, 299 (1981)
- Liposomes**, reaction centers from *Rhodospirillum rubrum* 130, 125 (1981)
- Lithium chloride**, isolation of the coupling factor from *Rhodospirillum rubrum* chromatophores 125, 149 (1980)
- Luciferase**, anaerobic, synthesis in luminous bacteria 121, 277 (1979)
 -, cellular in *Beneckea harveyi* 129, 67 (1981)
- ³H-Lysine**, exchange between *Uromyces phaseoli* and *Phaseolus vulgaris* 123, 129 (1979)
- Lysine permeases** in *Saccharomycopsis lipolytica* 122, 201 (1979)
- Lysis** of cells of *Schizosaccharomyces pombe* 127, 11 (1980)
 - of *Phormidium luridum* by *Myxococcus xanthus* 129, 285 (1981)
- ## M
- Malate synthase** in *Euglena gracilis* 124, 33 (1980)
- Malic enzyme** of *Chromatium vinosum* 127, 17 (1980)
- Manganese**, deposition in *Pedomicrobium*-like budding bacteria 123, 213 (1979)
 -, deficiency in *Brevibacterium ammoniagenes* 127, 105 (1980)
 -, influence on morphology of *Aspergillus niger* 128, 26 (1980)
- Mannan**, localization in *Candida albicans* 123, 245 (1979)
 β -Mannanases of *Xanthomonas campestris* 122, 297 (1979)
- Mannitol**, accumulation in *Geotrichum candidum* 126, 57 (1980)
- Mannitol cycle** in fungi 128, 253 (1980)
- Mannoproteins**, synthesis 127, 231 (1980)
- Marine bacterium**, properties of tryptophanase 122, 169 (1979)
- Mastigocladus laminosus**, photosynthetic membranes 124, 155 (1980)
 -, endonucleases 128, 242 (1980)
 -, phycoerythrocyanin 129, 268 (1981)
 -, biliprotein complexes 129, 374 (1981)
- Medicarpin**, degradation by *Fusarium fungi* 130, 381 (1981)
- Meiosis** in *Phallus impudicus* 128, 403 (1981)
- Membranes**, cytoplasmic, of *Chloroflexus aurantiacus* and *Chlorobium limicola* f. *thiosulfatophilum* 124, 21 (1980)
 -, outer, of *Salmonella typhimurium* 124, 69 (1980)
 -, photosynthetic of *Mastigocladus laminosus* 124, 155 (1980)
 -, of *Bacillus caldovenax*, chemical composition 126, 103 (1980)
 -, fusion in *Streptomyces hygroscopicus* 126, 263 (1980)
 -, vesicles of *Bacillus licheniformis* and *Klebsiella aerogenes* 127, 39 (1980)
 -, outer of *Escherichia coli* 127, 81 (1980)
 -, fractions of *Rhodopseudomonas capsulata* 127, 157 (1980)
 -, vesicles, sexual binding components in *Chlamydomonas eugametos* 128, 120 (1980)
 -, outer, of *Proteus mirabilis* 128, 299 (1981)
 -, biogenesis in *Rhodopseudomonas capsulata* 128, 376 (1981)
 -, potential development in *Rhodopseudomonas capsulata*, venturicidin effect 129, 94 (1981)
 -, cytoplasmic of *Plectonema boryanum*, proton translocation 129, 105 (1981)
 -, proteins in mercury resistance of *Enterobacter aerogenes* 130, 93 (1981)
 -, cytoplasmic of *Aphanocapsa* 130, 175 (1981)
 -, cytoplasmic of *Synechococcus* 130, 175 (1981)
 -, outer of *Paracoccus denitrificans* 130, 307 (1981)
- Mercury resistance** of *Clostridium cochlearium* 129, 49 (1981)
 - - of *Enterobacter aerogenes* 130, 93 (1981)
- Mesosomes**, bacterial, artifacts 130, 19 (1981)
- Messenger RNA** in *Euglena gracilis* 124, 33 (1980)
 -, synthesis in *Klebsiella pneumoniae* 130, 38 (1981)
- Metabolic products** of microorganisms 121, 71 (1979)
 121, 111 (1979)
 122, 219 (1979)
- Metabolism**, anaerobic, heterotrophic in *Oscillatoria limnetica* 122, 77 (1979)
 - of monohalogenated benzoates 122, 301 (1979)
 -, regulation in *Pseudomonas oxalaticus* 123, 47 (1979)
 123, 55 (1979)
 -, dissimilatory of nitrate in *Pseudomonas denitrificans* 124, 191 (1980)
 - of vanillic acid by *Sporotrichum pulverulentum* 125, 189 (1980)
 - of lignin model compounds by *Phanerochaete chrysosporium* 125, 227 (1980)
 - of methylamine in yeasts 126, 117 (1980)
 - of dialkyl ethers by *Acinetobacter* 126, 285 (1980)
 - of acetylene by *Rhodococcus* 127, 99 (1980)
 - of *Phanaerochaete chrysosporium* 128, 190 (1980)
 - in *Azotobacter vinelandii* 128, 222 (1980)
 - in *Rhodopseudomonas acidophila* 128, 233 (1980)
 -, anaplerotic of *Aspergillus nidulans* 128, 282 (1981)
 -, aromatic in *Phanaerochaete chrysosporium* 128, 416 (1981)
 - of hydrocarbons by yeasts 129, 9 (1981)
 -, phospholipid in *Mycobacterium smegmatis* 129, 81 (1981)
 -, central of *Thermus aquaticus* 129, 173 (1981)
 -, aromatic of *Streptomyces viridosporus* 129, 204 (1981)
 -, oxidative of *Claviceps purpurea* 129, 251 (1981)
 -, secondary in *Phanerochaete chrysosporium* 129, 321 (1981)
- Metabolite production** by *Klebsiella aerogenes*, kinetics 123, 189 (1979)
- Metabolites**, concentration in *Saccharomyces cerevisiae* 129, 216 (1981)
- Methane**, conversion of carbohydrate by *Acetobacterium woodii* and *Methanosarcina barkeri* 121, 97 (1979)
 -, microbial oxidation 122, 241 (1979)
 -, formation of *Acetobacterium woodii* 124, 73 (1980)
 -, formation in *Methanobacterium thermoautotrophicum* 130, 319 (1981)
- Methanobacterium**, sensitivity of the pseudomurein-containing genus 123, 275 (1979)
 -, N-acetylglucosaminuronic acid of the pseudomurein 123, 295 (1979)
 -, hydrogen transfer by *Acetobacterium woodii* 124, 73 (1980)
- Methanobacterium formicicum**, hydrogen transfer by *Acetobacterium woodii* 124, 73 (1980)
- Methanobacterium soehngenii**, acetate decarboxylation 123, 1 (1980)
- Methanobacterium thermoautotrophicum**, pseudomurein 121, 271 (1979)
 -, growth 123, 105 (1979)
 -, nickel, a component of factor F_{430} 124, 103 (1980)
 -, growth parameters 127, 59 (1980)
 -, comparison of murein and pseudomurein conformations 127, 195 (1980)
 -, autotrophic CO_2 fixation 127, 267 (1980)
 -, F_{430} content 127, 273 (1980)
 -, acetate thiokinase 128, 248 (1980)
 -, factors F_{430} 128, 256 (1980)
 -, autotrophic CO_2 assimilation 130, 288 (1981)
 -, sodium dependence 130, 319 (1981)
- Methanogenium cariaci** sp. nov., taxonomy 121, 147 (1979)
- Methanogenium marisnigri** sp. nov., taxonomy 121, 147 (1979)

- Methanogens**, syntrophic, association with anaerobic bacterium **122**, 129 (1979)
- , hydrogen transfer by *Acetobacterium woodii* **124**, 73 (1980)
- Methanol**, chemotrophic utilization by *Rhodopseudomonas* **122**, 177 (1979)
- , microbial oxidation **122**, 241 (1979)
- , utilization by yeasts **124**, 115 (1980)
- , oxidation, turnover of peroxisomes in *Hansenula polymorpha* **129**, 35 (1981)
- , utilization rate in *Hansenula polymorpha* **130**, 362 (1981)
- Methanosarcina barkeri**, conversion of carbohydrate to methane and carbon dioxide **121**, 97 (1979)
- , murein synthesis **123**, 275 (1979)
- Methanospirillum hungatii**, co-culture with an anaerobic fatty acids degrading bacterium **122**, 129 (1979)
- , murein synthesis **123**, 275 (1979)
- Methionine uptake** by dinoflagellates **128**, 311 (1981)
- Methylamine**, metabolism in yeasts **126**, 117 (1980)
- , oxidation, turnover of peroxisomes in *Hansenula polymorpha* **129**, 35 (1981)
- Methylococcus mobilis sp.nov.** **124**, 211 (1980)
- Methylomonas methylovora**, aldehyde dehydrogenase **122**, 241 (1979)
- Mercury**, sublethal effects on *Euglena gracilis* **128**, 407 (1981)
- Metronidazole** in *Rhodopseudomonas capsulata* **129**, 344 (1981)
- Microautoradiography**, uptake of amino-acids by *Pseudomonas* **122**, 271 (1979)
- Microbacterium thermosphactum**, energetics of growth **128**, 152 (1980)
- Microcoleus**, endonucleases **128**, 242 (1980)
- Microcycle conidiations** of *Neurospora crassa* **125**, 53 (1980)
- Microcystis aeruginosa**, gas vacuoles **122**, 57 (1979)
- , photosynthetic inhibitors of cyanophage SM-2 **129**, 165 (1981)
- Microcysts**, germination in *Polysphondylium pallidum* **121**, 231 (1979)
- Microcyst germination** in *Didymium iridis* **128**, 384 (1981)
- Microorganisms**, metabolic products **121**, 71 (1979)
- 121**, 111 (1979)
- 122**, 219 (1979)
- 126**, 223 (1980)
- 126**, 231 (1980)
- , marine, sulfate metabolism **130**, 1 (1981)
- , marine, sulfur metabolism **130**, 8 (1981)
- , radioimmunoassay **130**, 134 (1981)
- Microplasmodesmata**, observation in filamentous cyanobacteria **129**, 295 (1981)
- Microsporium cookie**, phospholipids **130**, 248 (1981)
- Microsporium gypseum**, phospholipids **130**, 248 (1981)
- Microtubules**, effect of drugs in *Physarum polycephalum* **128**, 34 (1980)
- Mitochondrial structure** of *Neurospora crassa* **125**, 53 (1980)
- Mitosis**, post-meiotic in *Phallus impudicus* **128**, 403 (1981)
- Molecular composition** of the outer membrane of *Escherichia coli* **127**, 81 (1980)
- Molybdate-sulfide** and H₂ production by *Ruminococcus albus* **124**, 137 (1980)
- Molybdenum**, requirement for growth of *Methanobacterium thermoautotrophicum* **123**, 105 (1979)
- , effects on nitrate reductase in *Paracoccus denitrificans* **126**, 155 (1980)
- Molybdenum cofactor** in *Proteus mirabilis* **130**, 44 (1981)
- Moraxella glucidolytica**, lipopolysaccharides **128**, 12 (1980)
- Morphology** and cell wall composition of *Aspergillus niger* **128**, 26 (1980)
- Mucor genevensis**, cyclic adenosine 3',5'-monophosphate and sporangiospore germination **126**, 133 (1980)
- Mucor mucedo**, cyclic adenosine 3',5'-monophosphate sporangiospore germination **126**, 133 (1980)
- Mucor racemosus**, cyclic AMP levels **129**, 353 (1981)
- , protein synthesis **129**, 353 (1981)
- , dimorphism **129**, 353 (1981)
- Mungbean**, H₂-recycling system in *Rhizobium* **129**, 380 (1981)
- Murein**, comparison with pseudomurein conformations **127**, 195 (1980)
- , biosynthesis in *Escherichia coli* **130**, 301 (1981)
- Murein synthesis** of *Methanobacterium* **123**, 275 (1979)
- , effect of nisin **127**, 187 (1980)
- Mycobacteriophage I3**, requirement for calcium ions **124**, 249 (1980)
- , nucleoside triphosphates and calcium **130**, 50 (1981)
- Mycobacterium smegmatis**, phospholipid metabolism **129**, 81 (1981)
- , mycobacteriophage I3 **130**, 50 (1981)
- Mycoplasma**, penicillin binding proteins **127**, 297 (1980)
- Myxococcus xanthus**, new phages **126**, 175 (1980)
- , entrapment and lysis of *Phormidium luridum* **129**, 285 (1981)
- , penicillin resistance **130**, 150 (1981)
- , β -lactamase activity **130**, 150 (1981)
- Myxomycetes**, ultrastructure of *Didymium iridis* **128**, 384 (1981)
- N**
- N₂-fixation**, microaerobic, of *Rhodopseudomonas acidophila* and *Rhodopseudomonas capsulata* **125**, 73 (1980)
- , relation to H₂-recycling system in *Rhizobium* **129**, 380 (1981)
- N-acetylglucosaminuronic acid** of pseudomurein of *Methanobacterium* **123**, 295 (1979)
- by mutants of *Rhizobium* **130**, 147 (1981)
- NADH photooxidation** by *Chlamydomonas reinhardtii* **127**, 245 (1980)
- Nectria haematococca**, ability of pisatin dimethylation **129**, 56 (1981)
- Neofibularia irata**, bdellovibrio infection **123**, 101 (1979)
- Neurospora crassa**, iron transport **121**, 43 (1979)
- , trehalase **122**, 275 (1979)
- , cyclic AMP **123**, 251 (1979)
- , cell respiration **125**, 53 (1980)
- , DNA synthesis **128**, 113 (1980)
- N-glycyl-glucosamine** in the cell wall of *Halococcus morrhuae* **123**, 209 (1979)
- Nickel** requirement by *Clostridium pasteurianum* **122**, 117 (1979)
- , requirement for growth of *Methanobacterium thermoautotrophicum* **123**, 105 (1979)
- , component of factor f_{430} from *Methanobacterium thermoautotrophicum* **124**, 103 (1980)
- , requirement in hydrogen-oxidizing bacteria **124**, 131 (1980)
- , dependence of factor F_{430} content in *Methanobacterium thermoautotrophicum* **127**, 273 (1980)
- nif Genes** in *Serratia marcescens*, *Erwinia herbicola* and *Proteus mirabilis* **127**, 115 (1980)
- Nif plasmid** from *Lignobacter* **130**, 322 (1981)
- Nikkomycin**, effect on fungal enzyme **121**, 71 (1979)
- Nisin**, effect on murein synthesis **127**, 187 (1980)
- Nitrate**, reduction in *Cyanidium caldarium* **121**, 117 (1979)
- , respiration in *Azospirillum lipoferum* and *Azospirillum brasilense* **121**, 141 (1979)
- , reductase in *Pseudomonas denitrificans* **124**, 191 (1980)
- , limitation in *Oscillatoria agardhii* **125**, 59 (1980)
- , reductase in *Paracoccus denitrificans* **126**, 149 (1980)
- 126**, 155 (1980)
- , reductase in membrane vesicles of *Bacillus licheniformis* and *Klebsiella aerogenes* **127**, 39 (1980)
- , utilization by *Anacystis nidulans* **128**, 137 (1980)
- , reductase in *Cyanidium caldarium* **129**, 110 (1981)
- , uptake in *Pseudomonas fluorescens* **129**, 135 (1981)
- , respiration by a bacterium **130**, 101 (1981)
- , utilization by *Cyanidium caldarium* **130**, 349 (1981)

- Nitrate assimilation**, mutants of *Pseudomonas aeruginosa* **122**, 263 (1979)
- Nitrification**, heterotrophic by *Arthrobacter* **122**, 137 (1979)
- Nitrite**, inhibition of nitrogenase from soybean bacteroids **124**, 49 (1980)
- , accumulation and reductase in *Pseudomonas denitrificans* **124**, 191 (1980)
- Nitrobacter agilis**, Nb₁-particles **121**, 187 (1979)
- Nitrobacter winogradskyi**, energy metabolism **130**, 250 (1981)
- Nitrogen**, fixation by blue-green algae **121**, 155 (1979)
- limitation, glucose catabolism by *Thiobacillus* **122**, 307 (1979)
- fixation, hydrogen formation by selected cyanobacteria cultures **123**, 227 (1979)
- , fixation in *Klebsiella pneumoniae* **123**, 259 (1979)
- , starvation in *Synechococcus* **124**, 39 (1980)
- , fixation associated with a green alga **124**, 161 (1980)
- , source for growth in yeasts **126**, 117 (1980)
- , limitation and recovery in *Aphanocapsa* 6308 **128**, 1 (1980)
- , fixation, physiology in *Azospirillum lipoferum* **128**, 371 (1981)
- , control in *Pseudomonas aeruginosa* **128**, 398 (1981)
- , fixation by *Alcaligenes latus* **129**, 254 (1981)
- , starvation in *Anacystis nidulans* **129**, 341 (1981)
- , inorganic, transformation by *Azospirillum* **130**, 96 (1981)
- , limitation, effects on *Agmenellum quadruplicatum* **130**, 204 (1981)
- Nitrogen-13** in *Pseudomonas fluorescens* **129**, 135 (1981)
- Nitrogenase** from soybean bacteroids **124**, 49 (1980)
- , derepression and repression in N₂ fixing bacteria **128**, 341 (1981)
- of *Azotobacter vinelandii* **128**, 412 (1981)
- , regulation of messenger RNA synthesis in *Klebsiella pneumoniae* **130**, 38 (1981)
- , switch-off in *Rhodopseudomonas palustris* **130**, 138 (1981)
- in *Rhodospirillum rubrum* **130**, 155 (1981)
- Nitrogenase activity** in *Azospirillum lipoferum* and *Azospirillum brasilense* **121**, 141 (1979)
- in *Rhodopseudomonas sulfidophila* **122**, 145 (1979)
- , prolonged in *Rhizobium japonicum* **122**, 153 (1979)
- , regulation in *Rhodopseudomonas capsulata* **122**, 213 (1979)
- in *Azospirillum brasilense* **125**, 67 (1980)
- , biphasic in *Azospirillum brasilense* **128**, 209 (1980)
- , inhibition in *Rhodopseudomonas capsulata* **129**, 344 (1981)
- Nitrosomonas**, D-Ribulose 1,5-bisphosphate carboxylase **128**, 275 (1981)
- , polyhedral inclusion bodies **128**, 275 (1981)
- Nitrosomonas europaea**, ammonia uptake **122**, 249 (1979)
- , O₂ uptake **122**, 249 (1979)
- , proton translocation **122**, 249 (1979)
- Nitzschia angularis**, Si(OH)₄ binding and transport **123**, 157 (1979)
- Nocardia**, degradation of coniferyl alcohol and aromatic compounds **126**, 141 (1980)
- Nocardia cellulans**, transfer of *Oerskovia* species **127**, 179 (1980)
- Nodulation** in *Rhizobium trifolii* **123**, 195 (1979)
- Nostoc**, occurrence of fimbriae **124**, 107 (1980)
- Nostoc muscorum**, enzyme regulation **130**, 14 (1981)
- Nuclei** from *Amanita*, amanitin resistance **122**, 161 (1979)
- Nucleic acids**, synthesis in *Chlorella fusca* **125**, 79 (1980)
- Nucleoside triphosphates**, association with mycobacteriophage I3 **130**, 50 (1981)
- Nucleoside uptake** by *Escherichia coli* **124**, 233 (1980)
- Nutrition**, deficiencies in *Neurospora crassa* **123**, 251 (1979)
- O**
- O-acetylserine sulphydrylase** of *Chromatium vinosum* **130**, 228 (1981)
- Obituary** Hermann Bortels **129**, 109 (1981)
- Ochromonas danica**, phototaxis **130**, 78 (1981)
- Oerskovia turbata**, peptidoglycan types **127**, 173 (1980)
- , cytochrome patterns **127**, 173 (1980)
- , transfer into the genus *Cellulomonas* **127**, 179 (1980)
- Oerskovia xanthineolytica**, cytochrome patterns **127**, 173 (1980)
- , peptidoglycan types **127**, 173 (1980)
- , transfer into the genus *Cellulomonas* **127**, 179 (1980)
- Oscillation**, respiratory, induction in *Anacystis nidulans* **129**, 123 (1981)
- Oscillatoria**, biphenyl oxidation **125**, 203 (1980)
- , biotransformation of aniline **130**, 272 (1981)
- Oscillatoria agardhii**, growth and physiology **123**, 315 (1979)
- , light and nitrate interactions **125**, 59 (1980)
- , ammonium-limited growth **129**, 61 (1981)
- Oscillatoria chalybea**, oxygen evolution **127**, 33 (1980)
- , fluorescence properties **127**, 33 (1980)
- Oscillatoria limnetica**, lactate fermentation **122**, 77 (1979)
- , metabolism **122**, 77 (1979)
- , sulfur respiration **122**, 77 (1979)
- , effect of oxygen **123**, 311 (1979)
- Outer membrane**, stability in *Proteus mirabilis* **121**, 177 (1979)
- Oxacephem**, effect of 6059-S on peptidoglycan synthesis in *Escherichia coli*, *Pseudomonas aeruginosa* and *Serratia marcescens* **130**, 90 (1981)
- Oxaloacetate decarboxylase** from *Acetobacter aceti* **124**, 63 (1980)
- Oxidation**, microbial of methane and methanol **122**, 241 (1979)
- , anaerobic of thiosulfate in *Thiobacillus denitrificans* **124**, 205 (1980)
- , of biphenyl by *Oscillatoria* **125**, 203 (1980)
- Oxidative phosphorylation** of *Paracoccus denitrificans* **121**, 213 (1979)
- Oxygen**, uptake in *Nitrosomonas europaea* **122**, 249 (1979)
- , effect on *Oscillatoria limnetica* **123**, 311 (1979)
- , utilization by *Lactobacillus plantarum* **125**, 209 (1980)
- 125**, 215 (1980)
- , effect on growth of *Chlorella vulgaris* **127**, 25 (1980)
- , evolution in *Oscillatoria chalybea* **127**, 33 (1980)
- , consumption by *Campylobacter sputorum* **127**, 137 (1980)
- , inhibition in *Rhodopseudomonas capsulata* **128**, 421 (1981)
- , exchange reactions of *Dunaliella tertiolecta* **129**, 154 (1981)
- in *Vibrio alginolyticus* **130**, 276 (1981)
- P**
- ³²**P-orthophosphate**, phospholipid metabolism in *Mycobacterium smegmatis* **129**, 81 (1981)
- Paracoccus denitrificans**, oxidative phosphorylation **121**, 213 (1979)
- , 23S ribosomal ribonucleic acids **123**, 165 (1979)
- , maximum growth rate **125**, 239 (1980)
- , potassium limitation **125**, 239 (1980)
- , nitrate reductase and cytochromes **126**, 149 (1980)
- , formation of molybdoenzymes **126**, 155 (1980)
- , electron transport **127**, 1 (1980)
- , energy transduction **127**, 1 (1980)
- , outer membrane **130**, 307 (1981)
- Paramecium bursaria**, metabolic interactions **125**, 291 (1980)
- , symbiosis **125**, 291 (1980)
- , photosynthetic enzymes of *Chlorella* **129**, 178 (1981)
- Parathion**, effect on fungal enzyme **121**, 71 (1979)
- Pathway**, metabolic, regulation of *Bacillus caldotenax* **124**, 13 (1980)
- Peltigera canina**, cyanobacterial fimbriae **124**, 107 (1980)
- Penicillin**, resistance in *Myxococcus xanthus* **130**, 150 (1981)
- Penicillium italicum**, 1,6-β-Glucanase **121**, 265 (1979)
- Peptidoglycan types** of *Oerskovia turbata* and *Oerskovia xanthineolytica* **127**, 173 (1980)
- Peptidoglycan synthesis** in *Escherichia coli*, *Pseudomonas aeruginosa* and *Serratia marcescens* **130**, 90 (1981)

- Peroxisomes**, amine-oxidase containing in yeasts **126**, 117 (1980)
 –, turnover in *Hansenula polymorpha* **129**, 35 (1981)
- Phage M-1**, transduction in *Rhizobium japonicum* **130**, 262 (1981)
- Phage T6 receptor** and nucleoside uptake by *Escherichia coli* **124**, 233 (1980)
- Phage resistance** and emulsan production of *Acinetobacter calcoaceticus* **130**, 129 (1981)
- Phallus impudicus**, basidiospore development **128**, 403 (1981)
 –, meiosis **128**, 403 (1981)
 –, post-meiotic mitosis **128**, 403 (1981)
- Phanerochaete chrysosporium**, fruit body formation **121**, 37 (1979)
 –, ligninolytic system **123**, 307 (1979)
 –, vanillate hydroxylase **123**, 319 (1979)
 –, metabolism of lignin model compounds **125**, 227 (1980)
 –, metabolism **128**, 190 (1980)
 –, aromatic metabolism **128**, 416 (1981)
 –, β -ether cleavage **129**, 141 (1981)
 –, secondary metabolism **129**, 321 (1981)
 –, onset of ligninolytic activity **130**, 59 (1981)
 –, suppression by NH_4^+ and L-glutamate **130**, 66 (1981)
- Phaseolus vulgaris**, microautoradiographic studies **123**, 129 (1979)
- Phenoloxidases** of *Podospira anserina* **130**, 121 (1981)
- Phenylacetamide**, adaptation as a growth-substrate of *Pseudomonas aeruginosa* **125**, 277 (1980)
- Phormidium luridum**, entrapment and lysis **129**, 285 (1981)
 –, microplasmodesmata **129**, 295 (1981)
- Phormidium uncinatum**, photophobic responses **130**, 83 (1981)
- Phosphate inhibition** in *Streptomyces hygroscopicus* **121**, 91 (1979)
- Phosphate**, regulation of cephalosporin synthesis in *Cephalosporium acremonium* **128**, 78 (1980)
- Phosphate uptake** by dinoflagellates **128**, 307 (1981)
- Phosphoenolpyruvate carboxylase** from *Acetobacter aceti* **122**, 109 (1979)
- Phosphofructokinase**, regulation in *Saccharomyces cerevisiae* **129**, 216 (1981)
- Phosphoglucose isomerase** from *Escherichia coli* **127**, 289 (1980)
- Phosphoketolase** in *Thiobacillus novellus* **122**, 257 (1979)
- Phospholipid**, composition of *Vibrio* **121**, 121 (1979)
 –, composition of *Pseudomonas* **126**, 51 (1980)
 –, in *Mycobacterium smegmatis*, metabolism **129**, 81 (1981)
 –, of *Microsporum*, changes **130**, 248 (1981)
- Phosphorylase** in yeasts, interference by acid phosphatase **123**, 233 (1979)
- Phosphorylation** in *Thiobacillus denitrificans* **128**, 19 (1980)
- Photoassimilation** of CO_2 in *Rhodopseudomonas capsulata* **128**, 431 (1981)
- Photobacterium** and *Vibrio*, relationships **130**, 111 (1981)
- Photobacterium fischeri**, anaerobic luciferase synthesis **121**, 277 (1979)
- Photobacterium leiognathi**, anaerobic luciferase synthesis **121**, 277 (1979)
 –, autoinduction of bioluminescence **129**, 299 (1981)
- Photobacterium phosphoreum**, anaerobic luciferase synthesis **121**, 277 (1979)
 –, autoinduction of bioluminescence **129**, 299 (1981)
- Photochemical activities** of *Euglena gracilis* **128**, 407 (1981)
- Photokinesis** in *Porphyridium cruentum* **122**, 207 (1979)
- Photomovement** in *Cosmarium cucumis* **129**, 168 (1979)
- Photooxidase**, activity in phototrophic bacteria **123**, 65 (1979)
- Photooxidation**, sensitivity of *Oscillatoria limnetica* **123**, 311 (1979)
- Photophobic response** in *Stentor coerules* **126**, 181 (1980)
 –, in *Porphyridium cruentum* **128**, 105 (1980)
 –, sensory transduction in *Phormidium uncinatum* **130**, 83 (1981)
- Photosynthesis**, anoxygenic in *Oscillatoria limnetica* **122**, 77 (1979)
 –, bacterial, cyclic redox chain of *Rhodospirillum rubrum* **125**, 271 (1980)
 –, of *Anabaena*, hydrogen inhibition **126**, 1 (1980)
 –, of *Anabaena variabilis* **128**, 336 (1981)
 –, of *Euglena gracilis* **128**, 407 (1981)
- Phototaxis** of *Anabaena variabilis* **122**, 85 (1979)
 –, of *Chlamydomonas reinhardtii* **123**, 93 (1979)
 –, of *Porphyridium cruentum* **125**, 181 (1980)
 –, in *Euglena gracilis* and *Ochromonas danica* **130**, 78 (1981)
- Phototrophic conditions**, adaptation of *Rhodospirillum rubrum* and *Rhodopseudomonas sphaeroides* **126**, 187 (1980)
- o-Phthalate**, inhibition of ligninolytic activity in *Phanerochaete chrysosporium* **123**, 307 (1979)
- Phycobiliproteins** of *Azolla caroliniana* **128**, 41 (1980)
- Phycobilisomes**, cyanobacterial, structure **123**, 113 (1979)
 –, turnover in *Synechococcus* **124**, 39 (1980)
 –, of *Rhodella violacea* **125**, 43 (1980)
 –, of *Gloeobacter violaceus* **129**, 181 (1981)
 –, of *Mastigocladus laminosus* **129**, 374 (1981)
 –, of *Synechococcus* **130**, 23 (1981)
- Phycocyanin** in the germination process of *Anabaena* akinetes **122**, 289 (1979)
 –, content modulation of *Synechococcus* phycobilisomes **130**, 23 (1981)
- Phycocerythrocyanin**, isolation and adaptation of *Mastigocladus laminosus* **129**, 268 (1981)
 –, complexes in *Mastigocladus laminosus* **129**, 374 (1981)
- Phycomyces**, density changes in spores **124**, 289 (1980)
- Physarum polycephalum**, somatic incompatibility **122**, 1 (1979)
 –, somatic incompatibility **122**, 1 (1979)
 –, synthesis of an endonuclease **122**, 195 (1979)
 –, protein synthesis inhibition **126**, 109 (1980)
 –, cycloheximide action **126**, 109 (1980)
 –, effect of microtubule-disrupting drugs **128**, 34 (1980)
 –, incompatibility **129**, 257 (1981)
- Physiology** of *Oscillatoria agardhii* **123**, 315 (1979)
- Pichia guilliermondii**, riboflavin biosynthesis **124**, 255 (1980)
- Pigmentation** of chlorosomes in *Chloroflexus aurantiacus* **127**, 87 (1980)
- Pigments** in *Flavobacterium*, flexirubin-type **126**, 291 (1980)
- Pilolobus longipes**, iron and temperature activation **126**, 43 (1980)
- Pisatin**, dimethylation ability in *Nectria haematococca* **129**, 56 (1981)
- Plasmids**, isolated from *Rhizobium meliloti* **121**, 1 (1979)
 –, of *Clostridium cochlearium*, mercury resistance **129**, 49 (1981)
 –, required by *Alcaligenes eutrophus* **129**, 384 (1981)
- Plasmid DNA** of *Rhodopseudomonas capsulata* **121**, 61 (1979)
- Plasmid control** of nodulation in *Rhizobium trifolii* **123**, 195 (1979)
- Plastocyanin**, role in *Anabaena variabilis* **128**, 336 (1981)
- Plectonema boryanum**, X-ray analysis **126**, 213 (1980)
 –, proton translocation **129**, 105 (1981)
 –, microplasmodesmata **129**, 295 (1981)
- Pleurotelloi**, isolation from *Pleurotellus hypnophilus* **130**, 223 (1981)
- Pleurotellus hypnophilus**, isolation of hypnophilin, pleurotelloi and pleurotellic acid **130**, 223 (1981)
- Podospira anserina**, proteolytic activities **124**, 269 (1980)
 –, phenoloxidase **130**, 121 (1981)
- Polyglucose**, intracellular in *Thiobacillus neapolitanus* **129**, 221 (1981)
- Polyhedral inclusion bodies** in *Nitrosomonas* **128**, 275 (1981)
- Polyhydric alcohols**, production of *Debaryomyces hansenii* **124**, 133 (1980)
- Polymers**, extracellular of *Pedomicrobium*-like budding bacteria **123**, 213 (1979)
- Polypeptides**, pigment-associated, insertion in *Rhodopseudomonas capsulata* **128**, 376 (1981)
- Polyporphosphate** in yeast vacuoles **121**, 169 (1979)
- Polyporphosphate bodies** in *Plectonema boryanum* **126**, 213 (1980)
- Polysaccharide** of *Candida albicans* **123**, 245 (1979)
 –, production and utilization by *Aeromonas hydrophila* **125**, 83 (1980)
 –, iodophilic, accumulation in *Acetivibrio cellulolyticus* **129**, 265 (1981)

- Polysphondylium pallidum**, microcyst germination 121, 231 (1979)
- Porphyridium cruentum**, photokinesis 122, 207 (1979)
 -, phototaxis 125, 181 (1980)
 -, phobic response 128, 105 (1980)
- Potassium gradient** in *Klebsiella aerogenes* 134, 183 (1979)
- Potassium limitation** of *Paracoccus denitrificans* 125, 239 (1980)
- Poterochromonas stipitata**, water-soluble vitamins 129, 310 (1981)
- Primycin**, mode of action in *Bacillus subtilis* 121, 135 (1979)
- Procaryotes**, cell-wall-less, penicillin binding proteins 127, 297 (1980)
- Prochloron**, genome size 129, 314 (1981)
 -, deoxyribonucleic acid base composition 129, 314 (1981)
- Product formation** in *Chromatium vinosum* 121, 161 (1979)
- Propionibacterium shermanii**, regulation of pyruvate kinase 122, 281 (1979)
 -, electron transport 126, 167 (1980)
- Protease**, excretion by *Serratia marcescens* 124, 55 (1980)
 -, isolation from *Bacillus subtilis* 129, 227 (1981)
- Proteins** in *Spirulina platensis* 125, 143 (1980)
 -, penicillin binding in cell wall-less procaryotes 127, 297 (1980)
 -, effect of microtubule-disrupting drugs in *Physarum polycephalum* 128, 34 (1980)
 -, crystal of *Bacillus thuringiensis* 129, 14 (1981)
 -, maltose-binding within *Escherichia coli* 129, 240 (1981)
- Protein synthesis** in *Bacillus cereus* 121, 235 (1979)
 - - in *Physarum polycephalum* 126, 109 (1980)
 - - in *Mucor racemosus* 129, 353 (1981)
 - - of *Pseudomonas halodurans* and *Alteromonas luteo-violaceus* 130, 1 (1981)
 - - 130, 8 (1981)
- Protein-lipopolysaccharide interactions**, importance in *Escherichia coli* 127, 81 (1980)
- Proteus mirabilis**, covalent lipoprotein 121, 177 (1979)
 - -, *his* and *nif* genes 127, 115 (1980)
 -, L-form membranes 127, 223 (1980)
 -, penicillin binding proteins 127, 297 (1980)
 -, lipoprotein in the outer membrane 128, 299 (1981)
 -, molybdenum cofactor 130, 44 (1981)
- Proton motive force** in *Rhodopseudomonas sphaeroides* 130, 357 (1981)
- Proton translocation** in *Nitrosomonas europaea* 122, 249 (1979)
 in *Rhodopseudomonas capsulata*, venturicidin effect 129, 94 (1981)
 in *Plectonema boryanum* 129, 105 (1981)
- Protoplast fusion** in *Streptomyces hygroscopicus* 126, 263 (1980)
- Protoplast L-form**, membranes of *Proteus mirabilis* 127, 223 (1980)
- Protoplasts** of *Candida albicans*, fusion, 129, 1 (1981)
- Pseudanabaena**, C-phycoerythrin 127, 253 (1980)
- Pseudomonas**, microautoradiography 122, 271 (1979)
 -, metabolism of monohalogenated benzoates 122, 301 (1979)
 -, phospholipid composition 126, 51 (1980)
 -, determination of adenosine pentaphosphate by radioimmunoassay 130, 134 (1981)
- Pseudomonas acidovorans**, utilization of 4-hydroxybenzoate and vanillate 126, 65 (1980)
- Pseudomonas aeruginosa**, nitrate assimilation mutants 122, 263 (1979)
 -, ammonia assimilation 124, 197 (1980)
 -, amidase and aromatic amides 125, 277 (1980)
 -, nitrogen control 128, 398 (1981)
 -, peptidoglycan synthesis 130, 90 (1981)
- Pseudomonas carboxydoflava**, physiological characteristics 127, 301 (1980)
- Pseudomonas carboxydohydrogena**, physiological characteristics 127, 301 (1980)
- Pseudomonas carboxydovora**, physiological characteristics 127, 301 (1980)
- Pseudomonas denitrificans**, effects of formate 124, 191 (1980)
- Pseudomonas flava**, nickel requirement for growth 124, 131 (1980)
- Pseudomonas fluorescens**, assimilatory nitrate uptake 129, 135 (1981)
- Pseudomonas halodurans**, sulfur metabolism 130, 1 (1981)
 130, 8 (1981)
- Pseudomonas maltophila**, bioaccumulation of silver 123, 239 (1979)
- Pseudomonas oxalaticus**, mixed substrate utilization 123, 37 (1979)
 123, 55 (1979)
 -, diauxic growth 124, 261 (1980)
- Pseudomonas putida**, utilization of aromatic substrates 130, 243 (1981)
 - -, glucose utilization 130, 243 (1981)
- Pseudomurein** from *Methanobacterium thermoautotrophicum* 121, 271 (1979)
 -, sensitivity to murein synthesis in *Methanobacterium* 133, 275 (1979)
 - of *Methanobacterium* 123, 295 (1975)
 -, comparison with murein conformations 127, 195 (1980)
- Pseudorevertants** of *Escherichia coli* K-12 mutants 128, 360 (1981)
- Pyridoxine**, effect on respiration in *Saccharomyces cerevisiae* 127, 47 (1980)
- Pyrimidine**, degradation in *Clostridium sticklandii* 124, 111 (1980)
- Pyrophosphate**, inorganic, light-dependent in *Anacystis nidulans* 129, 371 (1981)
- Pyruvate apocarboxylase**, content of yeast 122, 121 (1979)
- Pyruvate holocarboxylase**, content of yeast 122, 121 (1979)
- Pyruvate kinase** from *Propionibacterium shermanii* 122, 281 (1979)
- Purine**, utilization by adenine in *Alcaligenes eutrophus* H 16 125, 29 (1980)

R

- R-bodies** in hydrogen-oxidizing bacteria 121, 9 (1979)
- R-Plasmids**, conjugational transfer of *Rhodopseudomonas capsulata* 128, 390 (1981)
- dsRNA** encapsidation of the *Ustilago maydis* virus 128, 45 (1980)
- rRNA** homologies between *Paracoccus denitrificans* and *Rhodopseudomonas sphaeroides* 123, 165 (1979)
- Radioimmunoassay** in microorganisms 130, 134 (1981)
- Red algae**, control of nitrate reduction 121, 117 (1979)
 - -, photokinesis 122, 207 (1979)
 - -, biliprotein assembly in phycobilisomes of *Rhodella violacea* 125, 43 (1980)
 - -, phototaxis of *Porphyridium cruentum* 125, 181 (1980)
 - -, phobic response in *Porphyridium cruentum* 128, 105 (1980)
- Respiration** in *Rhodospirillum rubrum* and *Rhodospirillum tenue* 124, 97 (1980)
 - of *Anacystis nidulans* 125, 123 (1980)
 - of *Anabaena*, hydrogen inhibition 126, 1 (1980)
 -, endogenous in *Thraustochytrium aureum* 126, 161 (1980)
 - in *Saccharomyces cerevisiae* 127, 47 (1980)
 - of *Anabaena variabilis* 128, 336 (1981)
 - of *Euglena gracilis* 128, 407 (1981)
 - of *Benckea natriegens* 129, 119 (1981)
- Respiration rates**, specific of *Thiocystis violacea* and *Chromatium vinosum* 127, 125 (1980)
- Rhizobium**, H₂-recycling system 129, 380 (1981)
 -, N₂-fixation by mutants 130, 147 (1981)
- Rhizobium japonicum**, hydrogen uptake 121, 199 (1979)
 - -, prolonged nitrogenase activity 122, 153 (1979)
 - -, CO₂ fixation 123, 1 (1979)
 - -, nitrite inhibition of nitrogenase 124, 49 (1980)
 - -, H₂-uptake hydrogenase 128, 275 (1981)
 - -, serological diversity by enzyme-linked immunosorbent assay 130, 281 (1981)

Rhizobium japonicum D211, phage M-1 130, 262 (1981)

Rhizobium leguminosarum, lipopolysaccharides 125, 1 (1980)

– –, alkaline phosphatase 126, 251 (1980)

– –, metalions 126, 251 (1980)

– –, glucose uptake 128, 72 (1980)

– –, uptake and hydrolysis of disaccharides 129, 233 (1981)

– –, viability of endosymbionts 129, 349 (1981)

Rhizobium lupini, uptake and hydrolysis of disaccharides 129, 233 (1981)

Rhizobium meliloti, plasmids 121, 1 (1979)

– –, lipopolysaccharides 125, 1 (1980)

– –, uptake and hydrolysis of disaccharides 129, 233 (1981)

– –, ammonium assimilation 129, 391 (1981)

Rhizobium phaseoli, lipopolysaccharides 125, 1 (1980)

Rhizobium trifolii, plasmid control of nodulation 123, 195 (1979)

– –, lipopolysaccharides 125, 1 (1980)

– –, uptake and hydrolysis of disaccharides 129, 233 (1981)

Rhodella violacea, biliprotein assembly in phycobilisomes 125, 43 (1980)

Rhodococcus, metabolism 127, 99 (1980)

Rhodopseudomonas acidophila, chemoautotrophic growth 122, 177 (1979)

– –, diazotrophic growth 125, 73 (1980)

– –, alanine utilization 125, 105 (1980)

– –, nitrogen metabolism 128, 233 (1980)

Rhodopseudomonas capsulata, plasmid DNA 121, 61 (1979)

– –, chemoautotrophic growth 122, 177 (1979)

– –, regulation of nitrogenase activity 122, 213 (1979)

– –, diazotrophic growth 125, 73 (1980)

– –, dinitrogen fixation 127, 77 (1980)

– –, membrane fractions 127, 157 (1980)

– –, DNA-DNA-hybridization 128, 271 (1971)

– –, insertion of polypeptides 128, 376 (1981)

– –, conjugational transfer 128, 390 (1981)

– –, oxygen inhibition 128, 421 (1981)

– –, venturicidin effect 129, 94 (1981)

– –, acetate influence 129, 115 (1981)

– –, succinyl-coenzyme A 129, 335 (1981)

– –, inhibition of nitrogenase activity 129, 344 (1981)

Rhodopseudomonas gelatinosa, ADP glucose pyrophosphorylase 126, 21 (1980)

– –, succinyl-coenzyme A 129, 335 (1981)

Rhodopseudomonas globiformis, sulfur metabolism 130, 143 (1981)

– –, sulfate assimilation 130, 234 (1981)

Rhodopseudomonas palustris, nitrogenase switch-off 130, 138 (1981)

– –, thiosulfate:cytochrome c oxidoreductase 130, 328 (1981)

Rhodopseudomonas sphaeroides, photooxidase activity in the chromatophores 123, 65 (1979)

– –, 23S ribosomal ribonucleic acids 123, 165 (1979)

– –, ADP glucose pyrophosphorylase 126, 21 (1980)

– –, growth at different temperatures 126, 187 (1980)

– –, temperature dependence 126, 195 (1980)

– –, DNA-DNA hybridization 128, 271 (1981)

– –, proton motive force 130, 357 (1981)

Rhodopseudomonas sulfidophila, nitrogenase activity 122, 145 (1979)

– –, DNA-DNA hybridization 128, 271 (1981)

Rhodospirillum rubrum, photooxidase activity in the chromatophores 123, 65 (1979)

– –, cytochrome c oxidase 124, 97 (1980)

– –, respiration 124, 97 (1980)

– –, heterogeneity of the coupling factor 125, 149 (1980)

– –, H₂ production 125, 245 (1980)

– –, electrogenic cyclic redox chain 125, 271 (1980)

– –, growth at different temperatures 126, 187 (1980)

– –, temperature dependence 126, 196 (1980)

– –, glycolate excretion 129, 317 (1981)

– –, reaction centers 130, 125 (1981)

– –, nitrogenase 130, 155 (1981)

Rhodospirillum salexigens, spec.nov. 130, 325 (1981)

Rhodospirillum tenue, cell envelopes 123, 287 (1979)

– –, cytochrome c oxidase 124, 97 (1980)

– –, respiration 124, 97 (1980)

Riboflavin, biosynthesis in *Pichia guilliermondii* 124, 255 (1980)

Ribonuclease, activity of *Saccharomyces cerevisiae* 124, 243 (1980)

Ribonucleotide reductase in *Synechococcus* 123, 15 (1979)

Ribulosebiphosphate carboxylase in *Rhizobium japonicum* 123, 1 (1979)

– from *Chlorogleopsis fritschii* 130, 213 (1981)

– of *Synechococcus* 130, 344 (1981)

Ribulose biphosphate carboxylase/oxygenase from *Thiocapsa roseopersicina* 121, 75 (1979)

Ribulose-1,5-bisphosphate carboxylase in *Thiobacillus neapolitanus* 129, 361 (1981)

RNA synthesis, amanitin resistance in nuclei from *Amanita* 122, 161 (1979)

– in *Physarum polycephalum* 128, 34 (1980)

Rubredoxin content in *Acinetobacter calcoaceticus* 128, 263 (1980)

Ruminococcus albus, molybdate-sulfide and H₂ production 124, 137 (1980)

S

Saccharomyces, accumulation of pyrophosphate 128, 394 (1981)

Saccharomyces bailii, spore wall structure 121, 53 (1979)

Saccharomyces bayanus, sulfite formation 121, 251 (1979)

Saccharomyces carlsbergensis, glycogen metabolism 123, 143 (1979)

– –, effects of thiamine and pyridoxine 127, 47 (1980)

Saccharomyces cerevisiae, fructose consumption 121, 17 (1979)

– –, glucose consumption 121, 17 (1979)

– –, phosphoglucoseisomeraseless mutant 121, 17 (1979)

– –, sequestration of arginine 121, 169 (1979)

– –, decrease of ATP content 121, 225 (1979)

– –, ethanol inhibition 122, 49 (1979)

– –, compartments of digestive enzymes 123, 23 (1979)

– –, acid phosphatase 123, 233 (1979)

– –, ribonuclease activity 124, 243 (1980)

– –, heat sensitivity 124, 285 (1980)

– –, inhibition of catabolite inactivation 124, 293 (1980)

– –, effect of sulfite 125, 89 (1980)

– –, mannoproteins 127, 231 (1980)

– –, structural organization of *Tibi* grains 128, 157 (1980)

– –, inhibition of tryptophanyl-tRNA synthetase 129, 146 (1981)

– –, concentration of metabolites 129, 216 (1981)

– –, sex pheromones 129, 281 (1981)

– –, borrelidin resistant mutants 129, 368 (1981)

– –, glucan-chitin complex 130, 312 (1981)

Saccharomyces cerevisiae var. *ellipsoideus*, sulfite formation 121, 251 (1979)

Saccharomyces diastaticus, induction of sporulation 129, 47 (1981)

Saccharomyces florentinus, spore wall structure 121, 53 (1979)

Saccharomyces kluyveri, sex pheromones 129, 281 (1981)

Saccharomyces montanus, spore wall structure 121, 53 (1979)

Saccharomyces rouxii, spore wall structure 121, 53 (1979)

Saccharomycopsis lipolytica, lysine permeases 122, 201 (1979)

Saline environments, isolation of *Desulfobacter postgatei* gen.nov.sp.nov. 129, 395 (1981)

Salinity, requirements of *Thiobacillus intermedius* 129, 199 (1981)

Salmonella typhimurium, outer membrane 124, 69 (1980)

– –, transfer of the *nif* plasmid from *Lignobacter* 130, 322 (1981)

Salt, mineral, requirements of *Bacillus globisporus* subsp. *marinus* 126, 83 (1980)

Salt relations of *Dunaliella tertiolecta* 129, 154 (1981)

Scenedesmus, biochemical taxonomy 126, 11 (1980)

- Scenedesmus obliquus**, glyceraldehyde 3-phosphate dehydrogenase 122, 313 (1979)
- Scenedesmus protuberans**, light-limited growth 125, 9 (1980)
- Sclerotia** in *Claviceps purpurea*, development 125, 251 (1980)
- Sclerotization** of microplasmidia of *Physarum polycephalum* 122, 195 (1979)
- Seaweeds**, test of kappa carrageenan 128, 355 (1981)
- Secondary metabolism** in *Streptomyces hygroscopicus* 121, 91 (1979)
- Sediments**, marine, oxidation of short-chain fatty acids by sulfate-reducing bacteria 128, 330 (1981)
- , freshwater, oxidation of short-chain fatty acids by sulfate-reducing bacteria 128, 330 (1981)
- Selenium**, requirement for xanthine dehydrogenase from *Clostridium* 121, 255 (1979)
- Serine racemases** in *Streptomyces garyphalus* 129, 213 (1981)
- Serratia marcescens**, stringent and relaxed strains 121, 181 (1979)
- , exoprotease 124, 55 (1980)
- , *his* and *nif* genes 127, 105 (1980)
- , peptidoglycan synthesis 130, 90 (1981)
- Sex pheromones**, relation of *Hansenula wingei* to *Saccharomyces cerevisiae* and *Saccharomyces kluyveri* 129, 281 (1981)
- Short-chain fatty acids**, oxidation by sulfate-reducing bacteria 128, 330 (1981)
- Silicic acid**, diatom mineralization 123, 157 (1979)
- Silver**, bacterial accumulation 123, 239 (1979)
- Siroheme sulfite reductase**, isolated from *Chromatium vinosum* 121, 29 (1979)
- Slime mold**, light inhibition of aggregation in *Dictyostelium discoideum* 123, 281 (1979)
- , spore germination in *Fuligo septica* 130, 189 (1981)
- Sodium**, dependence of growth in *Methanobacterium thermoautotrophicum* 130, 319 (1981)
- Sodium chloride**, removal of outer membrane of *Paracoccus denitrificans* 130, 307 (1981)
- Solute**, accumulation by *Saccharomyces cerevisiae* 122, 49 (1979)
- Soybean**, bacteroids, nitrite inhibition 124, 49 (1980)
- Spirochete**, anaerobic, from swine intestine 122, 231 (1979)
- , rumen, *Treponema bryantii* sp. nov. 127, 145 (1980)
- Spirulina platensis**, C-phycocyanin as a storage protein 125, 143 (1980)
- Sponges**, marine, bdellovibrio infection 123, 101 (1979)
- Spore**, wall structure in *Kluyveromyces* and *Saccharomyces* species 121, 53 (1979)
- , germination of *Streptomyces galilaeus* 125, 285 (1980)
- , of *Pilolobus longipes*, germination factors 126, 43 (1980)
- , germination of *Schizosaccharomyces pombe* 129, 19 (1981)
- , polypeptides, translation in *Bacillus cereus* and *Escherichia coli* 129, 160 (1981)
- , germination in *Fuligo septica* 130, 189 (1981)
- Sporiangospores**, germination in *Mucor* 126, 133 (1980)
- Sporotrichum pulverulentum**, vanillic acid metabolism 125, 189 (1980)
- , metabolism, ferulic acid 128, 349 (1981)
- Sporulation**, potential of *Bacillus subtilis* 123, 9 (1979)
- in *Saccharomyces diastaticus* 129, 47 (1981)
- of *Bacillus subtilis* 129, 227 (1981)
- of *Desulfotomaculum acetoxidans* 129, 401 (1981)
- Substrate oxidation** in *Chromatium vinosum* 121, 161 (1979)
- Succinyl-Coenzyme A** in photosynthetic bacteria 129, 335 (1981)
- Sulfate**, assimilation in *Rhodopseudomonas globiformis* 130, 234 (1981)
- Sulfate reduction**, isolation of new bacteria 129, 395 (1981)
- Sulfate metabolism** of *Pseudomonas halodurans* and *Alteromonas luteo-violaceus* 130, 1 (1981)
- Sulfide oxidation** by *Rhodopseudomonas capsulata* 129, 115 (1981)
- Sulfite**, reductase from *Chromatium vinosum* 121, 29 (1979)
- , effect on the ATP content in yeast 121, 225 (1979)
- , formation by wine yeasts 121, 251 (1979)
- , effect on *Saccharomyces cerevisiae* 125, 89 (1980)
- S-sulfocysteine synthase**, activities of *Chromatium vinosum* 130, 228 (1981)
- Sulfolobus brierleyi**, taxonomy 125, 259 (1980)
- Sulfolobus solfataricus**, taxonomy 125, 259 (1980)
- Sulfur**, colloidal, reduction by sulfate-reducing bacteria 121, 261 (1979)
- , respiration by *Oscillatoria limnetica* 122, 77 (1979)
- , elemental, in *Thiobacillus denitrificans* 124, 205 (1980)
- , metabolism of *Chlorobium limicola* 130, 31 (1981)
- , metabolism of *Rhodopseudomonas globiformis* 130, 143 (1981)
- Sulphate uptake** by dinoflagellates 128, 311 (1981)
- Superoxide dismutase**, content in *Oscillatoria limnetica* 123, 311 (1979)
- - in *Lactobacillus plantarum* 125, 215 (1980)
- -, relationships in *Vibrio* and *Photobacterium* 130, 111 (1981)
- Synechococcus**, ribonucleotide reductase 123, 15 (1979)
- , phycobilisome turnover 124, 39 (1980)
- , lipopolysaccharides 127, 209 (1980)
- , two thioredoxins 127, 259 (1980)
- , photosynthetic characteristics 129, 42 (1981)
- , phycobilisomes 130, 23 (1981)
- , acetate movement across the cytoplasmic membrane 130, 175 (1981)
- , ribulosebisphosphate carboxylase 130, 344 (1981)
- Synechococcus elongatus**, photosynthetic inhibitors of cyanophage SM-2 129, 165 (1981)
- Synechocystis**, lipopolysaccharides 127, 217 (1980)
- , structure 129, 181 (1981)
- d,l-Syringaresinol**, degradation by *Fusarium solani* 129, 305 (1981)

Sch

- Schizophyllum commune**, dikaryotization 128, 162 (1980)
- 128, 172 (1980)
- , inter-cellular nuclear migration 128, 162 (1980)
- , multikaryotic hyphae 128, 172 (1980)
- Schizosaccharomyces pombe**, lysis by aculeacin A 127, 11 (1980)
- , changes during spore germination 129, 19 (1981)

St

- Staphylococci**, coagulase-negative 122, 93 (1979)
- Staphylococcus aureus**, cell wall turnover 121, 103 (1979)
- , bioaccumulation of silver 123, 239 (1979)
- Stentor coeruleus**, photophobic response 126, 181 (1980)
- Stigmata** of carotenoid pigments of *Euglena gracilis* 121, 207 (1979)
- Streptococcus lactis**, structural organization of Tibi grains 128, 157 (1980)
- Streptomyces**, occurrence of teichoic acids 126, 71 (1980)
- Streptomyces clavuligerus**, alanine dehydrogenase 125, 137 (1980)
- Streptomyces galilaeus**, effect of adenosine-5'-triphosphate-3'-diphosphate 125, 285 (1980)
- Streptomyces garyphalus**, hydroxyurea 129, 210 (1981)
- , serine racemases 129, 213 (1981)
- Streptomyces glaucescens**, production of tetracenomycin C 121, 111 (1979)
- , genome analysis 130, 218 (1981)
- Streptomyces hygroscopicus**, phosphate inhibition 121, 91 (1979)
- , protoplast fusion 126, 263 (1980)
- Streptomyces olivaceus**, imacidin, an antibiotic 122, 219 (1979)
- Streptomyces violaceus**, inhibition of β -galactosidase 125, 111 (1980)
- Streptomyces viridosporus**, aromatic metabolism 129, 204 (1981)
- Streptomycetes**, occurrence of teichoic acids 126, 71 (1980)
- Streptovorticillium**, occurrence of teichoic acids 126, 71 (1980)
- Streptozotocin**, effects on *Escherichia coli* 128, 196 (1980)

T

Taurine uptake by dinoflagellates **128**, 311 (1981)
Taxonomy of *Capnocytophaga* **122**, 9 (1979)
– of *Sulfolobus solfataricus* and *Sulfolobus brierleyi* **125**, 259 (1980)
–, biochemical of *Ankistrodesmus* and *Scenedesmus* **126**, 11 (1980)
–, biochemical of *Chlorella* **126**, 15 (1980)
Temperature, response of trehalase from fungi **122**, 275 (1979)
–, control of nitrogen fixation in *Klebsiella pneumoniae* **123**, 259 (1979)
–, activation of *Pilolobus longipes* spores **126**, 43 (1980)
– downshift of *Bacillus stearothermophilus* **129**, 29 (1981)
– in *Vibrio alginolyticus* **130**, 276 (1981)
Tetracenomycin C, production by *Streptomyces glaucescens* **121**, 111 (1979)
Tetrahymena thermophila, water-soluble vitamins **129**, 320 (1981)
Thermoanaerobacter ethanolicus gen.nov.spec.nov. **128**, 343 (1981)
Thermoanaerobium brockii gen.nov. and sp.nov. **122**, 41 (1979)
Thermobacteroides acetoethylicus gen.nov. and spec.nov. **128**, 365 (1981)
Thermomyces lanuginosus, trehalase **122**, 275 (1979)
Thermus aquaticus, central metabolism **129**, 173 (1981)
Thiamine, effect on respiration in *Saccharomyces cerevisiae* **127**, 47 (1980)
Thin layer chromatography of carotenoid pigments of *Euglena gracilis* **121**, 207 (1979)
Thiobacillus, competition between a versatile strain and specialists **121**, 241 (1979)
–, glucose catabolism **122**, 307 (1979)
–, mixotrophic growth **126**, 33 (1980)
–, metabolic flexibility **129**, 23 (1981)
Thiobacillus A2, growth yields **122**, 183 (1979)
– –, maintenance energy **122**, 183 (1979)
– –, mixed substrate metabolism **128**, 91 (1980)
Thiobacillus denitrificans, anaerobic oxidation and elemental sulfur **124**, 205 (1980)
– –, ATP production **128**, 19 (1980)
Thiobacillus intermedius, salinity requirements **129**, 199 (1981)
Thiobacillus neapolitanus growth yields **122**, 183 (1979)
– –, maintenance energy **122**, 183 (1979)
– –, glycolate excretion **122**, 189 (1979)
– –, CO₂ fixation **124**, 185 (1980)
– –, carboxysomes **124**, 185 (1980)
– –, D-Ribulose-1,5-bisphosphate carboxylase **124**, 185 (1980)
– –, intracellular polyglucose **129**, 221 (1981)
– –, ribulose-1,5-bisphosphate carboxylase **129**, 361 (1981)
Thiobacillus novellus, glucose catabolism **122**, 257 (1979)
– –, growth factor requirement **124**, 91 (1980)
– –, adenylate kinase **124**, 275 (1980)
Thiocapsa roseopersicina, ribulose bisphosphate carboxylase/oxygenase **121**, 85 (1979)
– –, photooxidase activity in the chromatophores **123**, 65 (1979)
Thiocystis violacea, chemotrophic growth **127**, 125 (1980)
Thioredoxins from *Synechococcus* **127**, 259 (1980)
Thiosulfate, anaerobic oxidation in *Thiobacillus denitrificans* **124**, 205 (1980)
–, role in sulfur metabolism of *Rhodopseudomonas globiformis* **130**, 143 (1981)
Thraustochytrium aureum, endogenous respiration **126**, 161 (1980)
Threonine pool in mutants of *Saccharomyces cerevisiae* **129**, 368 (1981)
Thylakoid membranes of *Plectonema boryanum*, proton translocation **129**, 105 (1981)
Tibi grains, structural organization **128**, 157 (1980)
Tips, hyphal of *Diplodia natalensis* **130**, 105 (1981)
Toxicity of aniline in cyanobacteria **130**, 272 (1981)

Transfer, conjugational of *Rhodopseudomonas capsulata* **128**, 390 (1981)
Transport, light dependent in *Nitzschia angularis* **123**, 157 (1979)
Trehalase from *Neurospora crassa* and *Thermomyces lanuginosus* **122**, 275 (1979)
–, activity during germination in *Schizosaccharomyces pombe* **129**, 19 (1981)
–, content, changes in *Schizosaccharomyces pombe* **129**, 19 (1981)
Tremella mesenterica, mating tube formation **128**, 215 (1980)
Treponema bryantii sp.nov. **127**, 145 (1980)
Treponema succinifaciens sp.nov. **122**, 231 (1979)
Trichoderma aureoviride, amino acid pools **130**, 180 (1981)
Trichoderma reesei, growth **130**, 372 (1981)
Trichosporon cutaneum, enzyme induction **130**, 54 (1981)
Triphenylmethyl phosphonium-ion, effects in *Dictyostelium discoideum* **126**, 97 (1980)
tRNA acylation, response to inhibition of *Bacillus stearothermophilus* **129**, 29 (1981)
Tryptophanase from *Vibrio* **122**, 169 (1979)
Tryptophenyl-tRNA, synthetase in *Saccharomyces cerevisiae* **129**, 146 (1981)
Tungsten, effects on nitrate reductase in *Paracoccus denitrificans* **126**, 155 (1980)

U

Ultrastructure of ascospores of *Saccharomyces* and *Kluyveromyces* species **121**, 53 (1979)
–, cytoplasmic, changes in *Claviceps purpurea* **125**, 251 (1980)
– of *Ascodichaena rugosa* **126**, 87 (1980)
– of *Moraxella glucidolytica* lipopolysaccharides **128**, 12 (1980)
– of cell wall formation of *Allomyces macrogynus* **128**, 179 (1980)
– of *Tremella mesenterica* **128**, 215 (1980)
– of *Didymium iridis* **128**, 384 (1981)
– of *Gloeocapsa* **130**, 165 (1981)
– of *Agmenellum quadruplicatum* **130**, 204 (1981)
Urea, degradation and compartmentalization in *Chlamydomonas reinhardtii* **129**, 261 (1981)
Urease, regulation in *Pseudomonas aeruginosa* **128**, 398 (1981)
Uromyces phaseoli, microautoradiographic studies **123**, 129 (1979)
Ustilago maydis, encapsidation **128**, 45 (1980)

V

Vacuoles of yeast, sequestration of arginine **121**, 169 (1979)
in yeasts **123**, 23 (1979)
Vanillate, hydroxylase from *Phanerochaete chrysosporium* **123**, 319 (1979)
–, utilization by *Pseudomonas acidovorans* **126**, 65 (1980)
Vanillic acid metabolism by *Sporotrichum pulverulentum* **125**, 189 (1980)
Venturicidin, effect in *Rhodopseudomonas capsulata* **129**, 94 (1981)
Veratryl alcohol, biosynthesis in *Phanerochaete chrysosporium* **129**, 321 (1981)
Viability of *Rhizobium leguminosarum* endosymbionts **129**, 349 (1981)
Vibrio, effects of temperature **121**, 121 (1979)
–, tryptophanase **122**, 169 (1979)
– and *Photobacterium*, relationships **130**, 111 (1981)
Vibrio alginolyticus, regulation of exoprotease production **130**, 276 (1981)
Vibrio fischeri, autoinduction of bioluminescence **129**, 299 (1981)
Vibrio succinogenes, fumarate reduction **129**, 100 (1981)
Vitamins, water-soluble in *Poteriochromonas stipitata*, *Euglena gracilis* and *Tetrahymena thermophila* **129**, 310 (1981)

W

Water stress, effect on cryptoendolithic cyanobacteria **130**, 267 (1981)

Wheat germ agglutinin, chitin-wall formation in *Diplodia natalensis* **130**, 105 (1981)

Wine yeasts, sulfite formation **121**, 251 (1979)

XY

Xanthine dehydrogenase from *Clostridium acidiurici* and *Clostridium cylindrosporum* **121**, 255 (1979)

Xanthobacter autotrophicus, nickel requirement for growth **124**, 131 (1980)

Xanthomonas campestris, β -mannanases **122**, 297 (1979)

Xylan, degrading enzymes of *Fusarium avenaceum* **129**, 247 (1981)

X-ray, analysis in *Plectonema boryanum* **126**, 213 (1980)

– analysis of *Leptospira* **130**, 339 (1981)

Yeasts, sequestration of arginine in vacuoles **121**, 169 (1979)

–, biotin deficient **122**, 121 (1979)

–, compartments of digestive enzymes **123**, 23 (1979)

–, acid phosphatase **123**, 227 (1979)

–, glycogen metabolism in *Saccharomyces carlsbergensis* **123**, 143 (1979)

–, methanol utilizing **124**, 115 (1980)

–, halotolerance **124**, 123 (1980)

–, ribonuclease activity **124**, 243 (1980)

–, heat sensitivity **124**, 285 (1980)

–, inhibition of catabolite inactivation **124**, 293 (1980)

–, effect of sulfite **125**, 89 (1980)

–, amine-oxidase containing peroxisomes **126**, 117 (1980)

–, effects of thiamins and pyridoxine **127**, 47 (1980)

–, alkane grown **128**, 145 (1980)

–, utilization of amines **128**, 320 (1981)

–, accumulation of pyrophosphate **128**, 394 (1981)

–, metabolism of hydrocarbons **129**, 9 (1981)

–, quantitative changes in *Schizosaccharomyces pombe* **129**, 19 (1981)

–, inhibition of tryptophenyl-tRNA synthetase by *Saccharomyces cerevisiae* **129**, 146 (1981)

–, glucose transport system in *Kluyveromyces lactis* **130**, 87 (1981)

Z

Zero order kinetics in *Staphylococcus aureus* **121**, 103 (1979)

Zinc, sublethal effects on *Euglena gracilis* **128**, 407 (1981)

Zoospores, encystment of *Allomyces macrogynus* **128**, 179 (1980)

A new journal
your bridge
between basic and
applied neurosciences

Human Neurobiology

Title No. 297

Editorial Board:

D. H. Ingvar, M.D., (Chairman of the Editorial Board), Clinic of the University Hospital Lund; **G. Baumgartner**, M.D., Universitätsspital Zürich, Neurologische Klinik und Poliklinik; **W. E. Bunney**, M.D., National Institute of Mental Health, Bethesda; **O. J. Grüsser**, M.D., Physiologisches Institut der Freien Universität Berlin; **B. Julesz**, M.D., Bell Laboratories, Murray Hill; **D. Kimura**, Ph.D., Department of Psychology, University of Western Ontario, London, Canada; **M. Mishkin**, M.D., Laboratory of Neurophysiology, National Institute of Mental Health, Bethesda; **I. Rentschler**, Dr. rer. nat., (Managing Editor), Institut für medizinische Psychologie der Universität München; **M. Zimmermann**, Dr.-Ing., II. Physiologisches Institut, Abt. Physiologie des Zentralnervensystems, Heidelberg

Advisory Board:

K. Akert, J. Atkinson, G. Berlucchi, A. Borbély, M. S. Buchsbaum, T. M. Caelli, H. Collewijn, O. Creutzfeldt, H. Emrich, G. Fant, A. Fiorentini, M. Frankenhäuser, J. M. Fuster, E. Halgren, H. O. Handwerker, H. Hecaen, S. Hoyer, M. Jeannerod, M. Jouvet, Y. Lebrun, B. Libet, G. O. Ojemann, D. Ploog, K. Poeck, E. Poeppel, H. F. R. Precht, J. Risberg, W. Singer, S. H. Snyder, L. Terenius, F. Schulsinger, L. Sokoloff, Å. Vallbo, F. Vogel, G. Westheimer

Aims and Scope

Human Neurobiology is primarily devoted to studies of the biological basis of mental activity and human behavior. Though the major emphasis is on the species of man, it also publishes investigations on other primates related to human neurobiology.

Human Neurobiology attempts to cover and integrate neuropsychology, sensory physiology, neuroendocrinology, neurology, neurosurgery, neurophysiology, neuropsychiatry, neurolinguistics, neuroethology, developmental neurobiology, neurochemistry, neuropharmacology, neuroanatomy, and neuropathology.

It will thus form a bridge between basic and applied science within the fields mentioned. **Human Neurobiology** publishes issues containing independent original articles as well as reviews. Some issues are devoted to special topics.

Subscription Information:

1982: Volume 1 (4 issues).

North America:

US \$ 76.00, including postage and handling.

For subscriptions please write to:

Springer-Verlag New York Inc., 175 Fifth Avenue, New York, NY 10010, USA

All Other Countries:

1982: DM 128.00, plus postage and handling.

Please send your order to your bookseller or directly to:

Springer-Verlag, Promotion Dept., P.O. Box 105 280, D-6900 Heidelberg, FRG

1946/4/1a

Coupon return to:

Springer-Verlag, P.O. Box 105 280, D-6900 Heidelberg 1, FRG
or to your bookseller

☐ Please send a sample copy of the new journal **Human Neurobiology**



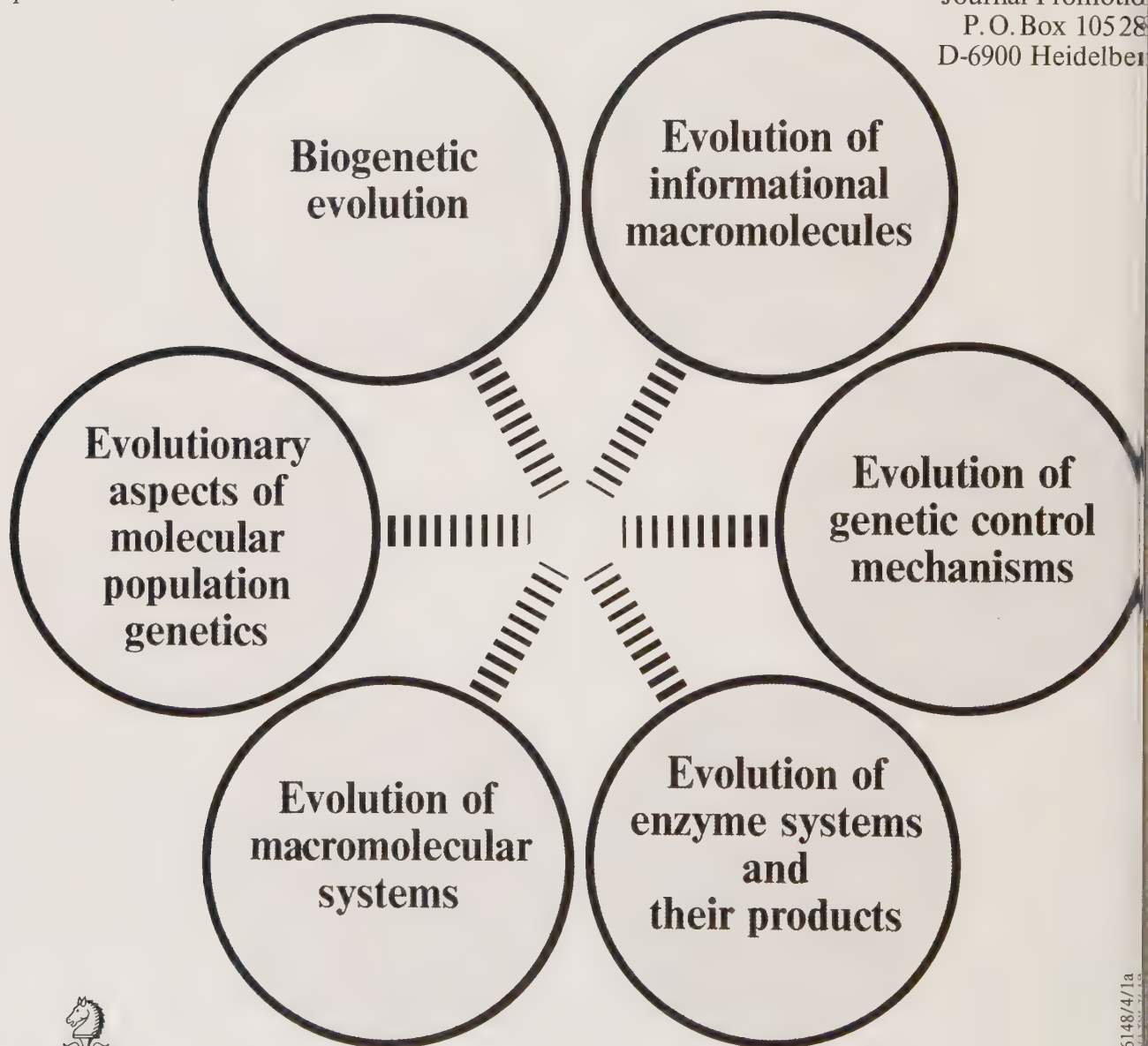
Springer
International

(Give complete address)

Journal of Molecular Evolution

For a sample copy
please contact:

Springer-Verlag
Journal Promotion
P.O. Box 105 28
D-6900 Heidelberg



Springer-Verlag Berlin Heidelberg New York

Journal of Molecular Evolution

For a complete
index see back

Springer-Verlag
Journal Publishing
P.O. Box 17
D-1000 Berlin 27



Springer-Verlag Berlin Heidelberg New York

2

LIBRARY USE ONLY

